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ABSTRACT

This report is intended to provide employment, training, and education program planners with information on using the Iowa Microcomputer Occupational Information Network (MICRO-OIN). The first section provides an overview of the Iowa State Occupational Information Coordinating Committee. The following topics are covered: the objectives, target audience, and scope of the general system; terminology used in describing the system; definitions, resources, and application notes for data content; limitations in the use of the data; occupations and training programs covered in the system; organization of the data into clusters; and substate areas for which data are available. The Iowa Occupational Information Network and its contents are described in section 2. The third and longest section includes the demand report, supply report, and analysis information for the state of Iowa. The fourth section contains indexes to programs, occupations, and clusters used in the MICRO-OIN as well as other references intended to assist system users. (MN)

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IOWA
MICROCOMPUTER OCCUPATIONAL INFORMATION NETWORK (MICRO-OIN)

STATEWIDE REPORT

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CE049274

Iowa State Occupational Information Coordinating Committee
523 East 12th Street
Des Moines, Iowa 50319

February, 1986

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ACKNOWLEDGMENTS

The Iowa Micro-OIN was developed through the efforts of a number of individuals who should be acknowledged here. The system was developed under contract from the National Governors' Association through funding and leadership provided by the National Occupational Information Coordinating Committee (NOICC), Russell B. Flanders, Executive Director.

Appreciation is extended to my colleagues on the OIN Review Group who provided advice and guidance throughout the project. The Group consisted of the following persons: Kermit Bowling of Tennessee, Joyce Kinnison of North Carolina, Mildred Nichols of Rhode Island, Rod Slack of Iowa, Dan Marrs of North Dakota, Kay Raithel of Missouri, and Don Sullivan of Kentucky. Jim Woods and Dick Dempsey of the NOICC and Lorraine Amico of NGA served on the review group as project officers from their respective agencies.

The contractors who developed the system were Eugene Jurado, Project Manager, Warren Wolff, and Kendrick Spooner of the Western Occupational Research Corporation (WORC) of Boulder, Colorado.

We also would like to acknowledge the leadership in Iowa of each of the SOICC members and their supporting agencies without whom this system would never have been made available to Iowa.

Recognition should also go to Harvey Siegelman, Director of the Division of Economic Analysis, Office for Planning and Programming, and staff whose expertise in economic forecasting and financial support made this publication possible.

John Niemeyer
Executive Director
Iowa SOICC

I. INTRODUCTION

A. PURPOSE

The purpose of this Report is to provide information to employment, training, and education program planners on the use of the Iowa Micro-OIN. This includes:

1. Information about the Iowa SOICC
2. A conceptual overview of the Iowa OIN
3. Iowa Statewide Report
4. Indices for use in accessing data

This Report, as noted, will show the user how to proceed through the system, accessing the data he or she wants. The Report, however, does not address the application of such information in the planning process. The publication A Guide for Local Occupational Program Planning provides assistance in utilizing this data and information from other sources for program planning. This publication is available free from the Iowa SOICC.

B. ORGANIZATION OF THE STATEWIDE REPORT

This Report is comprised of four (4) sections which are discussed below:

Section I provides an introduction to the report and the Iowa SOICC.

Section II provides a description of the Iowa OIN and its contents.

Section III provides the demand report, supply report, and analysis information for the State of Iowa.

Section IV provides indices to programs, occupations, and clusters used in the Micro-OIN as well as other helpful references to assist the user.

C. Iowa State Occupational Information Coordinating Committee (ISOICC)

The Iowa State Occupational Information Coordinating Committee (ISOICC) is an interdepartmental organization composed of five (5) member agencies from Iowa state government. ISOICC member agencies and their designated representatives are listed in Exhibit 1.

EXHIBIT I
ISOICC MEMBERS

Philip C. Smith (Chairman)
Director of Human Resources Coordination Division
Iowa Office for Planning and Programming
(Representing the State Job Training Coordinating Council)

William W. Baley (Vice Chairman)
Associate Superintendent
Area Schools and Career Education Branch
Iowa Department of Public Instruction

James A. Hunsaker III
Administrative Officer
Director's Office
Iowa Department of Job Service

Jerry L. Starkweather
Associate Superintendent
Vocational Rehabilitation Education and Services Branch
Iowa Department of Public Instruction

Vacant
Iowa Development Commission

The ISOICC was created in response to the federal legislative mandates of the Education Amendments of 1976. The Governor has designated the ISOICC as the agency responsible for the State's comprehensive occupational information network as mandated under the Job Training Partnership Act of 1982 (P.L. 97-300, Section 125) and the Carl D. Perkins Vocational Education Act of 1984 (P.L. 98-524). Under these combined mandates, the ISOICC performs several different functions. The primary function is the continued development of Iowa's Occupational Information Network (OIN).

Utilizing input from Iowa's state and local occupational information producers and users, the ISOICC staff and planners from ISOICC agencies designed, developed, and implemented one of the nation's first automated occupational information systems which included occupational supply and demand data. Administrators and planners of vocational education and job training programs assisted in the design of this system to assure that available sources of occupational data were accessible for the planning process in a format which planners could understand and use.

During the early phases of the Iowa OIN design process, many persons expressed the need for automated, interactive access to the OIN data bases. However, these types of systems could not be supported financially under the ISOICC budget at that time. With the advent of the microcomputer, an interactive system designed for use by planners became feasible.

The NOICC decided to fund the development and implementation of a Micro-OIN and selected the Iowa OIN upon which to implement the micro computer system model. Additional funding was provided by the Comprehensive Employment and Training Act (CETA), the forerunner of JTPA.

II. IOWA OCCUPATIONAL INFORMATION NETWORK (OIN)

This section of the Report provides a brief description of the total Iowa OIN. It includes:

1. An overview of the general system
2. Terminology used in describing the system
3. Definitions, resources and application notes for data content
4. Limitations in the use of the data
5. Occupations and training programs covered in the system
6. Organization of the data into clusters (i.e., units of analysis)
7 Substate areas for which data are available

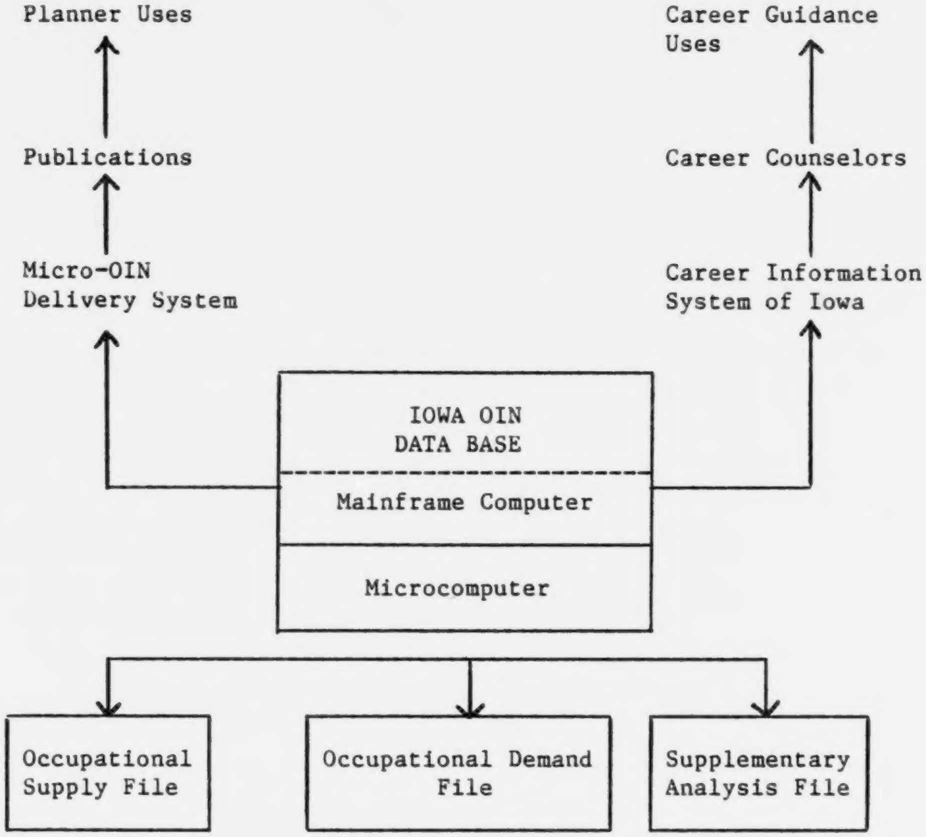
A. OVERVIEW

The Iowa OIN serves as an information base and delivery medium for planners at the state and local levels. It also serves as a base of raw data to support career information delivery systems and career counselors throughout the State.

The OIN data base is located on a business-size microcomputer located at the ISOICC offices in Des Moines and at planning offices in key education and training agencies of the State and areas. The Micro-OIN provides the capability to produce tailored reports produced through an interactive search of the data base, as well as, production reports. The data bases will be updated annually as new data becomes available.

The following figure illustrates how the OIN supports both planning and career guidance uses. Vocational education, employment and training and economic development planners are targeted users of the Micro-OIN delivery components. The raw data, which may be interpreted and tailored for career guidance purposes, is delivered to the Career Information System of Iowa (CISI) and school and college career counselors, vocational rehabilitation counselors and libraries across the State.

FIGURE I
USES OF THE OIN FOR PLANNING AND CAREER GUIDANCE


Planner Uses
Publications
Micro-OIN Delivery System
Career Guidance Uses
Career Counselors
Career Information System of Iowa
IOWA OIN DATA BASE
Mainframe Computer
Microcomputer
Occupational Supply File
Occupational Demand File
Supplementary Analysis File

The purpose of the planning component of the OIN is to provide supply, demand and characteristics data at the state and local level. This information is necessary to determine occupations for which training is needed to help meet labor market demands. The OIN provides a standard data base across programs so that coordination activities can be carried out more effectively. The Iowa SOICC has designed and developed the OIN around existing and available data resources. Persons who are unfamiliar with the terminology used in the OIN may refer to TERMINOLOGY for a list of terms and definitions.

B. DATA CONTENT

Data in the OIN are available for three major categories: occupational demand, supply, and supplementary data to support occupational analysis.

The data contained in the OIN will be updated annually and will be adapted to meet specific user needs.

Occupational demand includes data which indicate how many jobs, by occupation, will be available. Occupational supply indicates how many trained workers are available from education and training programs to fill job openings. Supplementary data for occupational analysis provides information further describing the occupations and the balance between demand and supply. Occupational supply and demand relationships are included for each cluster (i.e., group of related training programs and occupations) contained in the OIN. This section defines and describes each of the three categories.

1. Occupational Demand

a. Definition - In general, occupational demand measures available jobs in a labor market. In the OIN, occupational demand is represented by current and projected occupational employment and annual openings (openings due to growth and replacement, not turnovers).

b. Data Resource - The Occupational Employment Statistics (OES) program, administered by the Iowa Department of Job Service, provides current occupational employment and, in cooperation with other agencies, projected occupational employment and annual openings data for the system.

The OES program is a three-part program designed to provide occupational employment and openings data. The three parts are:

1) Survey - the OES Survey is a statewide stratified survey of employers in Iowa over a three-year period. For each year in the three-year cycle, a different sector of the nonagricultural economy is surveyed. The survey sample is stratified both by industry and by the size class of firms within the industries. Survey results are used to develop industry and occupational staffing patterns.

2) Staffing Patterns - Staffing patterns are developed through the OES program for each industry surveyed. Staffing patterns represent the proportion of specific occupations which are likely to occur in particular industries. The industry and occupational data are arranged in matrix form. The intersect of rows and columns is called a cell. In each cell is the proportion that a given occupation represents of all occupational employment in a given industry.

The percentages in the staffing pattern table are multiplied against current and projected total employment by industry to develop occupational employment estimates.

3) Projections - Occupational employment and openings projections are made by projecting industry employment into the future and applying staffing pattern tables to the resultant projections.

Industry employment is forecast into the future through the use of the Iowa Econometric Model housed at the University of Iowa and managed by Data Resources, Inc. (DRI) of Lexington, Massachusetts. State industry employment is reviewed by the Iowa Economic Forecasting Council, appointed by the Governor, and substate employment by the Iowa Employment Forecast Committee. This insures that employment trends unique to Iowa and its areas are incorporated in the projections.

Special working life tables, prepared by the National Crosswalk Service Center in Iowa, are used to estimate occupational replacement openings. Under current procedures, estimates of replacement requirements in the OES program include only labor force separations resulting from deaths, retirements, disabilities or family responsibilities. Reliable data on openings due to transfer to another occupation and migration in or out of a labor market area are not available. The sum of openings due to growth and replacement is annual openings.

c. Application Considerations - Demand data provided through the OIN from the OES program represent the best data available and give users a standardized and useful tool for making planning decisions.

In using demand data from the OIN, users should be aware of the following:

1) The OES program data represents nonagricultural wage and salary employment. Therefore, it is a count of jobs, not the number of people employed. If an individual has two jobs (i.e. one full-time and one part-time in the evenings), then both jobs are counted.

2) Because one OES occupation may relate to several different education and training programs and to different clusters as a result, an occupation may appear in more than one cluster. For example, the occupation "Secretaries" appears in the clusters "Secretarial - Stenographic", "Legal Secretarial" and "Medical Secretarial". In this instance, the employment data are disaggregated to each cluster based on an analysis of the distribution of employment.

Multiple clusters for an occupation are indicated in each cluster by an asterik after the occupational code and the footnote "indicates occupation code occurs in other clusters". A listing of all of the clusters that a code may be found in is located in the CLUSTER INDICIES.

To find the allocation percentage for each cluster the occupation appears in, simply enter the title in the DIRECT SEARCH on the microcomputer. All clusters and percentage distribution of employment among those clusters will be listed for the occupation.

3) The employment data and job openings for agricultural occupations provide a special case. They were not included in the original OES survey. Furthermore, they were not projected as a part of the Iowa Econometric Model.

In order to provide information on agricultural employment by occupation, 1980 Census data were used as the base. The occupational data in this file represents the kind of work the person was doing at a job or business during the reference week or, if not at work, at the most recent job or business if employed since 1975. Persons working at more than one job were instructed to describe the one at which the person worked the most hours during the reference week. Occupation data were also collected for persons currently unemployed who have worked since 1975. These data were collected on a sample basis. Table I lists the eleven 1980 Census occupations used.

The last three digits of the code represent the 1980 Census occupational code.

Projections for agricultural employment for Iowa since the 1980 Census were provided by the Iowa Department of Job Service and Iowa State University.

TABLE I
1980 CENSUS AGRICULTURE OCCUPATIONS USED IN THE IOWA OIN

CODE	TITLE
90000473	Farmers, Except Horticulture
90000474	Horticulture Specialty Farmers
90000475	Managers, Farms, Except Horticulture
90000476	Managers, Horticulture Specialty Farms
90000477	Supervisors, Farm Workers
90000479	Farm Workers
90000483	Marine Life Cultivation Workers
90000484	Nursery Workers
90000485	Supervisors, Related Agricultural Occupations
90000498	Fishers
90000499	Hunters and Trappers

4) Projected data estimates are based on past trends and assumptions of what will happen in the future. No one can "see into the future" with complete accuracy. However, the use of the Iowa Econometric Model provides the best tool available for occupational forecasting.

5) Data should be used as estimates, not as exact figures, for a particular point in time or area of the state.

6) Annual openings reflect growth and replacement needs, not openings due to turnover or mobility.

7) Not included in demand data are nonagricultural self-employed and unpaid family workers and domestic workers in private households. For most occupations, not including these workers does not significantly change the data. However, for some occupations such as barbers, shoe repairers, paperhangers, veterinarians, etc., this can result in a significant undercount. Those occupations most affected are found included in Table II.

TABLE II
OCCUPATIONS WITH THE 1980 U.S. RATIO OF SELF-EMPLOYED WORKERS TO WAGE AND SALARY WORKERS GREATER THAN 0.5000

TITLE	CODE	RATIO
Chiropractors	10100200	5.5042
Dentists	10100400	1.7600
Optometrists	10101000	1.3249
Podiatrists	10101600	2.0207
Veterinarians	10102000	1.4165
Dance Instructors	10206001	1.3966
All Other Teachers	10206099	1.1258
Athletes	10220401	.6450
Sports Instructors	10220403	.8028
Singers	10221405	2.4522
Music Directors	10221408	3.1346
Commercial Artists	10221601	.8822
Painting Restorers	10221605	2.3913
Photographers	10221801	.7599
Architects	10240400	.6439
Media Buyers	10240803	1.3764
Lawyers	10242202	.9281
Real Estate Brokers	30001402	1.6446
Sales Agents, Reps. Real Estate	30001403	1.6606
Vendors	30001803	1.4367
Logging Tractor Operators	50021000	.8939
Concrete Stone Finishers	50021205	.6596
Floor Sanding Machine Operators	50022000	6.0201
Painters, Maintenance	50022200	.6667
Paperhangers	50022600	3.1634
Blacksmiths	50060200	1.3352
Auto Seatcover and Top Installers	50080600	.9682
Household Appliance Installers	50082007	.7401
Radio, TV Servicers and Repairers	50082600	.6033
Bicycle Repairers	50083202	.9153
Locksmiths	50083212	.8116
Carpetcutters, Layers	50140600	.7369
Jewelers and/or Silversmiths	50142401	.6416
Watchmakers	50142402	.8386
Shoe Repairers	50143602	2.0227
Stone Carvers, Hand	50144203	.5076
Furniture Upholsterers	50144601	1.7292
Instructors, Apparel & Textile Machines	50144815	1.2309
Musical Instrument Repairers	50144826	1.5414
Sewers, Custom	61081600	2.5400
Laundry Operators, Small Establishments	61082809	.9611
Taxi Drivers	62002004	.7690
Housekeepers, Hotel & Motel	70080616	1.6623
Child Care Attendants	70081601	.6999
Child Care Workers	70081602	.7098
Barbers	70081000	2.6873
Cosmetologists	70082001	1.0142
Manicurists	70082003	.8996
Shampooers	70082006	.9226
Fallers and/or Bucker	80001805	1.0099

2. Occupational Supply

a. Definition - In this usage, occupational supply measures the number of individuals completing education and training programs by occupations. The OIN Supply File includes data on completions for public and private secondary schools, public and private post secondary vocational preparation programs, JTPA On-the-Job Training, Job Corps, military separatees and apprenticeship programs. Job Service of Iowa applicants are also provided in the OIN as measures of supply. However, those applicants are not included in the supply component due to the possibility of duplicate counts. Instead, they are included in the Analysis Information Reports.

b. Data Resources - Resources providing indicators of occupational supply in the OIN are described in Table III.

c. Application Considerations - Supply data provided through the OIN represent the best data available and will give users a standard and useful tool for making planning decisions.

In using OIN supply data, users should be aware of the following:

1) Private school data do not cover correspondence or out-of-state schools.

2) There are several sources of supply to the labor market other than completions from training programs, for which no occupational data are presently collected These include a) persons who are unemployed but who are not registered Job Service applicants, b) persons currently out of the labor force and not in a training program but who may enter in the future, c) people moving into a labor market from another area (in-migration), and d) persons currently employed who may transfer to another occupation (i.e., occupational mobility).

3) When available, placement data should be used to factor out those training program completors who potentially may not be available supply for the Labor Market.

4) Data from four-year colleges and universities, both public and private, are not included in the Iowa OIN at this time.

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TABLE III
SOURCES OF OCCUPATIONAL SUPPLY INFORMATION IN IOWA

DATA SOURCES	DESCRIPTION
Department of Public Instruction (DPI)	The DPI Management Information System provides information on public and private secondary completions and Area School post secondary completions in both federally and non-federally funded programs. This information is available by CIP code. Those programs included under "Career Options" are distinguished by a "C" following the CIP code.
DPI, ISOICC, CISI, and the Iowa College Aid Commission	A survey of Iowa proprietary schools conducted jointly by four state agencies provides data by CIP code for all cooperating private schools.
Governor's Office of Planning and Programming	The Human Resources Coordination Division provides data on all completers from JTPA training programs.
Iowa Department of Job Service	The Audit and Analysis Department of the Iowa Department of Job Service provides year-to-date cumulative counts of local office applicants and job openings by DOT code. Each applicant is only counted once in the statewide summary, even though he/she may have applied several times during the year. Those occupations that have 5 or more applicants or orders are included.
Bureau of Apprenticeship and Training	The Bureau of Apprenticeship and Training provides data on program completers by year, by DOT title, and by county.
Job Corps	Job Corps provides data on Iowa completers of training programs by year. Only statewide data are available. Job Corps completers are found in the statewide APPRENTICESHIP column and are distinguished by a "J" following the CIP code.
Department of Defense and NOICC	Military separatee data are provided for individuals who indicate during their discharge process that they are coming/returning to Iowa. The data is included for all of the Armed Forces.

3. Supplemental Analysis Data

a. Definition - In general, this information describes the characteristics of occupations or provides further perspective on the relationship between demand and supply.

b. Data Resources - In the analysis component of the OIN, supplementary information are included for Job Service of Iowa Applicants and Openings, the Ratio of Applicants to Openings and Average Hourly Wages. These are further explained below.

1) Total JS Applicants - Total Job Service Applicants, as reflected for the previous fiscal year, are obtained through the Employment Security Automated Reporting System (ESARS). This factor reflects short-term supply showing those job seekers who filed an application with Job Service of Iowa during the previous fiscal year. Applicants are counted only once during the year.

2) Total JS Openings - Total openings are also obtained through ESARS. This factor reflects short term demand showing those job openings which were placed with Job Service of Iowa during the previous fiscal year.

3) Ratio - This data element reflects the ratio of openings (previously described) to Job Service applicants for those jobs. This factor is calculated within the Micro-OIN.

4) Average Hourly Wages - Wage data in the OIN are shown as hourly averages. These data are collected through the ESARS system and represent the wages reported on job openings received by Job Service of Iowa offices.

c. Application Considerations - This data can be used to further analyze the balance between occupational demand and supply. These data, in their present form, do not represent an "analysis" per se. However, the data can contribute to a better understanding of the demand/supply relationship.

C. DATA COVERAGE

The OIN contains data for occupations in the Occupational Employment Statistics (OES) program (e.g. 1985, 1987 and 1988 estimated employment, annual openings, annual growth and replacement) and data for public and private training programs (e.g., completions). In addition, information on hourly wages, and Job Service applicants and openings are included by DOT level detail.

The OIN includes vocational training programs in the public and private sectors. Each vocational program is described by its title and a six-digit CIP (U.S. Classification of Instructional Programs) code. Vocational programs under "Career Option" are also included in the supply component and are designated by the six-digit CIP followed by a "C".

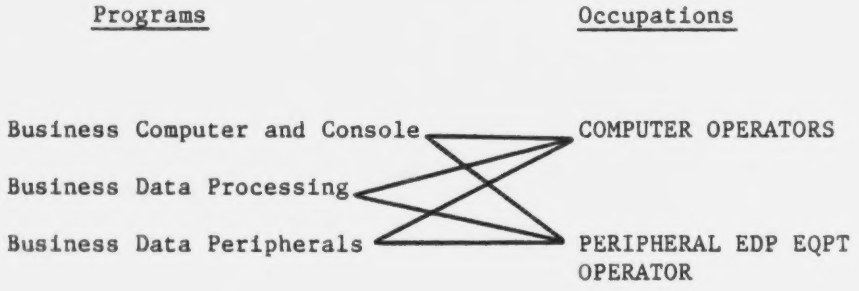
Programs and occupations in the OIN are related by use of clusters (described in the next section). However, because not all occupations in Iowa are related to a vocational training program, i.e., some occupations do not require training, the OIN contains occupational titles which have no vocational training programs related to them.

To assist in locating occupations and programs of interest, Section IV to this Report includes CLUSTER INDICIES relating training program areas with related clusters and occupational titles with related clusters. A feature of the Micro-OIN provides an automated means to search codes and titles. This will be described below.

D. DATA RELATIONSHIPS (CLUSTERS)

In the OIN, occupational demand, supply and supplemental analysis data are related to each other by organizing them into "clusters". A "cluster" is defined as a grouping of education/training programs that have common curricula and occupational objectives coupled with the occupations that can be entered as an outcome of the training. Data in the OIN are presented by clusters.

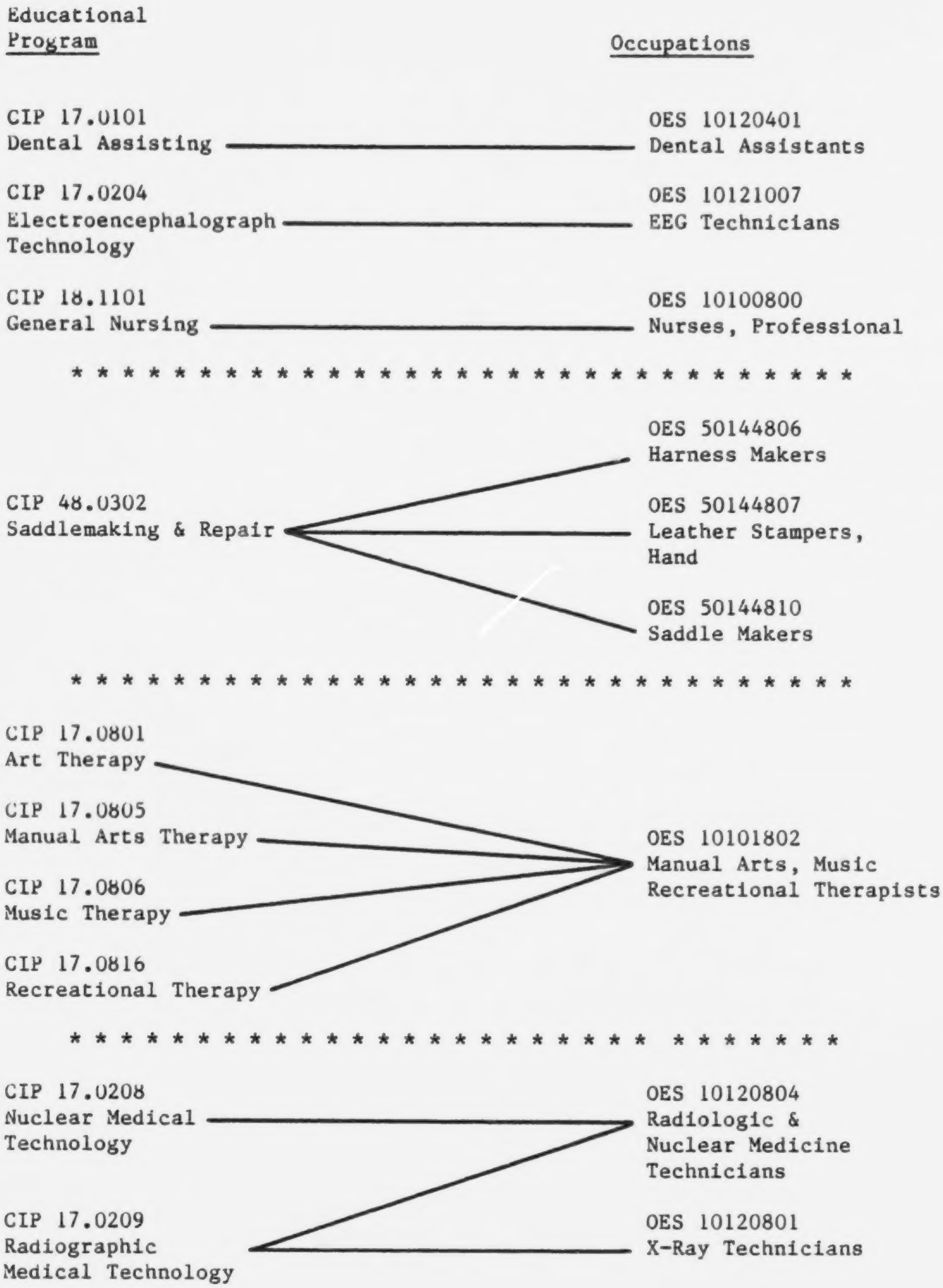
FIGURE II
CLUSTER 0120: COMPUTER OCCUPATIONS


Programs
Occupations
Business Computer and Console
Business Data Processing
Business Data Peripherals
COMPUTER OPERATORS
PERIPHERAL EDP EQPT OPERATOR

The use of the "clustering" structure is necessary in an Occupational Information Network because of the differences in the classification systems used to organize a) training programs with their data and b) occupational employment and openings data. These classification systems must be related in order to obtain supply and demand data relationships. Only occasionally will one program be related to one occupation. Examples of classification relationships are illustrated in Figure III for:

1) One-to-one relationship.
2) One CIP relating to several occupations.
3) Several CIPs relating to one occupation.
4) Combination of CIPs relating to occupations.

FIGURE III
EXAMPLES OF CLASSIFICATION RELATIONSHIPS


Educational Program
Occupations
CIP 17.0101 Dental Assisting
OES 10120401 Dental Assistants
CIP 17.0204 Electroencephalograph Technology
OES 10121007 EEG Technicians
CIP 18.1101 General Nursing
OES 10100800 Nurses, Professional
* *
OES 50144806 Harness Makers
CIP 48.0302 Saddlemaking & Repair
OES 50144807 Leather Stampers, Hand
OES 50144810 Saddle Makers
* *
CIP 17.0801 Art Therapy
CIP 17.0805 Manual Arts Therapy
OES 10101802 Manual Arts, Music Recreational Therapists
CIP 17.0806 Music Therapy
CIP 17.0816 Recreational Therapy
* *
CIP 17.0208 Nuclear Medical Technology
OES 10120804 Radiologic & Nuclear Medicine Technicians
CIP 17.0209 Radiographic Medical Technology
OES 10120801 X-Ray Technicians

By combining educational programs with the occupations to which they relate, an unduplicated count of supply (completions) and demand (total openings) is obtained through the cluster.

Relationships between training programs and occupations to develop clusters are determined through the use of a national crosswalk of various classification systems prepared by the National Crosswalk Service Center located in Iowa and funded by the National Occupational Information Coordinating Committee (NOICC). This crosswalk is then reviewed by Iowa educational and labor market specialists to tailor its contents to programs and occupations specific to Iowa.

E. GEOGRAPHIC COVERAGE

To be useful for local planning purposes, data from the OIN must be available on a statewide and area basis. The identification of areas to be used in the OIN depends upon two factors: a) the areas for which programs are being planned and b) the areas for which data are available. Currently, Iowa has OES projections for the State, the sixteen (16) JTPA Service Delivery Areas and the fifteen (15) Department of Public Instruction Merged Areas.

TERMINOLOGY

The following terms (listed in alphabetical order) are defined only within the context of their use in the OIN.

ANNUAL OPENINGS - The number of annual job openings in an occupation from one year to another expected to result from a) growth in occupational employment and b) replacement of workers who leave the labor force. In the OIN, this is one of the measures of occupational demand.

CIP - "Classification of Instructional Programs", a national taxonomy used to code education and training programs.

CLUSTER - Term used to describe groups of related education and training programs and occupations; a "unit of analysis" which defines the level at which supply and demand are provided in the OIN.

COMPLETIONS - The number of individuals who have completed the training requirements of a particular program. In the OIN, this is one of the measures of occupational "supply".

DEMAND - the number of available jobs by occupation in a particular place at a particular time. In the OIN, this is represented by current and projected occupational employment and annual openings.

DOT - the Dictionary of Occupational Titles, a national classification system for jobs which includes many of the characteristics of specific jobs. It is used in the OIN to identify total Job Service applicants, openings and hourly wages.

EMPLOYMENT - The estimated current and/or projected number of jobs by occupation.

EMPLOYMENT TRENDS - Projected change in occupational employment over time.

ESARS - The Employment Security Automated Reporting System, the Management Information System of the Iowa Department of Job Service. Used in the OIN as a basis for determining average occupational wages and job applicants and openings.

MERGED AREA - The area served by an Area School (Area Community College-Vocational Technical School).

OIN - The Iowa Occupational Information Network.

OCCUPATION - A particular trade, profession, or vocation. In the OIN, occupations are classified using the Occupational Employment Statistics (OES) and DOT coding structures.

OES - The Occupational Employment Statistics (OES) program is designed to estimate current and future employment and opening trends by occupation. The OES provides occupational demand data for the OIN.

OPENINGS - Unfilled jobs in the labor market. In the OIN, future annual openings are estimated via the OES Program and the Iowa Econometric Model. ESARS provides current job openings data.

SUPPLEMENTAL ANALYSIS DATA - Data that are used in the OIN to provide additional perspectives on the relationships between demand and supply, as well as on individual occupations and programs. The OIN provides data on hourly wages, applicants, openings and a ratio between applicants and openings.

SDA - A substate grouping of counties designated as a (S)ervice (D)elivery (A)rea for the Job Training Partnership Act (JTPA) program.

SUPPLY - The number of trained workers available for employment in particular occupations. In the OIN, supply is measured by education and training program completers.

03/03/86
IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: NURSING

CLUSTER CODE 1180

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
NURSES, PROFESSIONAL	10100800	18300	18321	18393	72	440	512							
TOTALS		18300	18321	18393	72	440	512							
SUPPLY:														
NURSING, ASSOCIATE DEGREE	18.1101								801	321	3		5	1130
TOTALS									801	321	3		5	1130

OCCUPATION/PROGRAM TITLE - represents titles from the Occupational Employment Statistics Survey-Based Matrix Program or the Classification of Instructional Programs.

CODE - represents the occupational or educational program code associated with the title.

EMPL 1985-1987-1988 - represents the annual employment forecasts or estimates developed from the Iowa Department of Job Service and the Iowa Econometric Model.

ESTIMATED ´87-´88 - reflects the total job openings estimated for 1987 to 1988. Openings are based on two factors: expansion (or decline) and replacements due to withdrawal from the labor force through quits, deaths and retirements.

PUBLIC SECOND - reflects completers from public and private secondary schools during during the 1984-1985 school year.

PUBLIC P. SEC - reflects completer from Area Schools during the 1984-1985 school year.

PRIVATE P. SEC - reflects completers from private post-secondary schools during the 1984-1985 school year.

JTPA/OJT - represents JTPA On-the-Job Training completers from the 16 Job Training Partnership Act Service Delivery Areas for FY1985.

APPRENTICE - reflects completers from apprenticeship training programs during 1985.

JOB CORPS - reflects completers from Job Corps training centers who relocate in Iowa. Data is distinquished by a ´J´ after the CODE and found in the ´APPRENTICE´ column.

MILITARY - reflects military separates who are returning to Iowa.

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: NURSING — CLUSTER CODE 1180

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
075.124-014	NURSE, STAFF, COMMUNITY H	7	1	7.00	8.00
075.127-018	NURSE, HEAD	5	0	--	N.A.
075.264-010	NURSE PRACTITIONER	5	0	--	N.A.
075.374-010	NURSE, GENERAL DUTY	994	252	3.94	6.79
075.374-014	NURSE, OFFICE	26	8	3.25	6.56

CODE - represents codes from the Dictionary of Occupational Titles.

TITLE - represents titles from the Dictionary of Occupational Titles.

TOTAL J.S. APPLICANTS - represents individuals who filed an application at Job Service of Iowa offices during FY1985. Individuals are only counted once even though they might have filed more than one application for employment during the year.

TOTAL J.S. OPENINGS - represents the number of job openings received by Job Service of Iowa offices during FY1985.

RATIO J.S. APPS/OPEN - represents the ratio of Job Service applicants divided by Job Service openings.

AVE. HRWAGE - represents the average hourly wage rate reflected on the job openings received by the Job Service of Iowa offices.

III. STATEWIDE REPORT

02/26/86

IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: COMPUTER SYSTEMS ANALYSIS

CLUSTER CODE 0100

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SYSTEMS ANALYSTS, EDP	10160400	1834	1914	1944	30	10	40							
TOTALS		1834	1914	1944	30	10	40							
SUPPLY:														
BUSINESS SYSTEMS ANALYSIS	07.0306								86					86
TOTALS									86					86

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: COMPUTER SYSTEMS ANALYSIS
CLUSTER CODE 0100

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
012.167-066	SYSTEMS ANALYST, ELECTRON	44	12	3.67	9.29

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: COMPUTER PROGRAMMING

CLUSTER CODE 0110

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
COMPUTER PROGRAMMERS	10160200	2689	2808	2867	59	14	73							
TOTALS		2689	2808	2867	59	14	73							
SUPPLY:														
BUSINESS DATA PROGRAMMING	07.0305								229		4		6	239
BUSINESS DATA PROGRAMMING	07.0305C								6					6
BUSINESS DATA PROCESSING A	07.0399							16		35				51
COMPUTER PROGRAMMING	11.0201									50				50
COMPUTER PROGRAMMING	11.0201C								17					17
TOTALS								16	252	85	4		6	363

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: COMPUTER PROGRAMMING CLUSTER CODE 0110

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
020.162-014	PROGRAMER, BUSINESS	379	91	4.16	7.97
020.187-010	PROGRAMER, INFORMATION SY	14	3	4.67	7.89

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: COMPUTER OPERATION

CLUSTER CODE 0120

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
COMPUTER OPERATORS	40040601	2527	2622	2663	41	24	65							
PERIPHERAL EDP EQPT OPE	40040602	729	772	785	13	18	31							
TOTALS		3256	3394	3448	54	42	96							
SUPPLY:														
BUSINESS DATA PROCESSING A	07.0301							119	214					333
BUSINESS COMPUTER AND CONS	07.0302							8	88		19		11	126
BUSINESS DATA PERIPHERAL E	07.0304							26				1		27
DATA PROCESSING	11.0301										1			1
TOTALS								153	302		20	1	11	487

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: COMPUTER OPERATION CLUSTER CODE 0120

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
213.362-010	COMPUTER OPERATOR	722	125	5.78	5.10

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: DATA ENTRY OPERATION

CLUSTER CODE 0130

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
KEYPUNCH OPERATORS	40041000	3104	3223	3269	46	32	78							
IN-FILE OPERATORS	40066812	43	48	49	1	4	5							
TOTALS		3147	3271	3318	47	36	83							
SUPPLY:														
BUSINESS DATA ENTRY EQUIPM	07.0303							17	84		9		14	124
TOTALS								17	84		9		14	124

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: DATA ENTRY OPERATION — CLUSTER CODE 0130

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
203.362-014	IN-FILE OPERATOR	113	37	3.05	4.65
203.582-022	DATA TYPIST	86	39	2.21	4.27
203.582-026	DATA-CODER OPERATOR	133	15	8.87	4.98
203.582-030	KEYPUNCH OPERATOR	543	170	3.19	4.58

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: AGRICULTURAL BUSINESS

CLUSTER CODE 0200

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
EXTENSION SERVICE SPECI	10202004	121	120	120	0	6	6							
COUNTY AGRIC. SPECIALIS	10241400	173	171	171	0	4	4							
TOTALS		294	291	291	0	10	10							
SUPPLY:														
AG. BUSINESS & MANAG. GENE	01.0101							1						1
AGRICULTURAL ECONOMICS	01.0103							1						1
TOTALS								2						2

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ANALYSIS INFORMATION

STATEWIDE | IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: AGRICULTURAL BUSINESS | CLUSTER CODE 0200

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
096.127-010	COUNTY-AGRICULTURAL AGENT	6	0	--	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: AGRICULTURAL MECHANICS

CLUSTER CODE 0210

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
BLACKSMITHS	50060200	17	17	17	0	0	0							
FARM EQUIPMENT MECHANIC	50081600	565	559	556	-3	21	18							
TOTALS		582	576	573	-3	21	18							
SUPPLY:														
AGRICULTURAL MECHANICS, GE	01.0201							14						14
AGRICULTURAL ELECTRIFICATI	01.0202										1			1
AGRICULTURAL POWER MACHINE	01.0204							6	129		13			148
TOTALS								20	129		14			163

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IOWA OCCUPATIONAL INFORMATION NETWORK

ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: AGRICULTURAL MECHANICS CLUSTER CODE 0210

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
624.281-010	FARM-EQUIPMENT MECHANIC 1	213	13	16.38	5.03
624.381-010	ASSEMBLY REPAIRER	9	0	--	N.A.
624.381-014	FARM-EQUIPMENT MECHANIC 2	13	0	--	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: AGRICULTURAL PRODUCTION

CLUSTER CODE 0230

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
FARM EQUIPMENT OPERATOR	61006218	62	63	62	-1	3	2							
FARMERS, EXC HORTICULTU	90000473	75577	68060	65060	-3000	3580	580							
MANAGERS, FARMS EXC HOR	90000475	5628	5918	6116	198	285	483							
SUPERVISORS, FARM WORKE	90000477	518	545	563	18	11	29							
FARM WORKERS	90000479	26582	27950	28886	936	1143	2079							
MARINE LIFE CULTIVATION	90000483	3	3	3	0	0	0							
SUPERVISORS, RELATED AG	90000485	260	273	282	9	9	18							
FISHERS	90000498	83	79	77	-2	4	2							
HUNTERS AND TRAPPERS	90000499	9	9	9	0	0	0							
TOTALS		108722	102900	101058	-1842	5035	3193							
SUPPLY:														
FARM AND RANCH MGT, POWER	01.0104										1			1
SOIL AND WATER MECHANICAL	01.0206										1			1
AGRICULTURAL PRODUCTION, G	01.0301							1303	195					1498
ANIMAL PRODUCTION	01.0302							10	164		16			190
CROP PRODUCTION	01.0304							1			22			23
ANIMAL BREEDING AND GENETI	02.0202										2			2
ANIMAL NUTRITION	02.0204										4			4
ANIMAL PHYSIOLOGY	02.0205										2			2
DAIRY	02.0206										1			1
LIVESTOCK	02.0208										4			4
AGRONOMY	02.0402										2			2
TOTALS								1314	359		55			1728

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: AGRICULTURAL PRODUCTION — CLUSTER CODE 0230

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
401.137-010	SUPERVISOR, AREA	0	24	0.00	6.13
401.137-014	SUPERVISOR, DETASSELING C	53	67	0.79	4.02
401.161-010	FARMER, CASH GRAIN	28	0	--	N.A.
401.683-010	FARMWORKER, GRAIN 1	73	44	1.66	3.86
401.683-014	FARMWORKER, RICE	7	0	--	N.A.
401.687-010	FARMWORKER, GRAIN 2	7111	16145	0.44	3.54
402.687-010	FARMWORKER, VEGETABLE 2	0	11	0.00	4.59
403.161-010	FARMER, TREE-FRUIT-AND-NU	0	20	0.00	N.A.
403.687-018	HARVEST WORKER, FRUIT	0	9	0.00	3.35
404.663-010	FARMWORKER, FIELD CROP 1	8	0	--	N.A.
404.687-010	FARMWORKER, FIELD CROP 2	4	22	0.18	3.53
404.687-014	HARVEST WORKER, FIELD CRO	6	45	0.13	4.47
405.684-014	HORTICULTURAL WORKER 1	40	7	5.71	3.61
405.687-014	HORTICULTURAL WORKER 2	144	158	0.91	3.50
407.663-010	FARMWORKER, DIVERSIFIED C	46	8	5.75	4.13
408.684-014	SPRAYER, HAND	0	6	0.00	4.34
408.684-018	TREE PRUNER	5	2	2.50	5.50
408.687-010	FIELD INSPECTOR, DISEASE	11	0	--	N.A.
408.687-018	TREE-SURGEON HELPER 2	13	0	--	N.A.
409.131-010	SUPERVISOR, PICKING CREW	0	350	0.00	3.40
409.687-018	WEEDER-THINNER	148	434	0.34	3.56
410.131-022	SUPERVISOR, STOCK RANCH	6	0	--	N.A.
410.161-018	LIVESTOCK RANCHER	5	0	--	N.A.
410.664-010	FARMWORKER, LIVESTOCK	158	48	3.29	4.15
410.684-010	FARMWORKER, DAIRY	25	14	1.79	3.91
411.584-010	FARMWORKER, POULTRY	6	12	0.50	3.73
421.161-010	FARMER, GENERAL	440	27	16.30	3.79
421.683-010	FARMWORKER, GENERAL 1	1392	246	5.66	4.16
421.687-010	FARMWORKER, GENERAL 2	493	77	6.40	4.11

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: AGRICULTURAL PROCESSING

CLUSTER CODE 0270

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
MILLERS	50142603	171	173	169	-4	5	1							
GRADERS,FOOD &/OR SKINS	61060401	124	126	126	0	5	5							
MIXERS,FOOD & TOBACCO	61083856	685	695	686	-9	16	7							
NOVELTY WORKERS	61086019	28	29	29	0	1	1							
BUTTERMAKERS	61086024	5	5	5	0	0	0							
DAIRY PROCESSING EQMT O	61086026	182	188	186	-2	7	5							
CHEESEMAKERS	61086029	46	47	47	0	1	1							
WASHERS &/OR SEPARATORS	61086207	126	129	130	1	5	6							
BLANCHING MACHINE OPERA	61086213	4	4	4	0	0	0							
SUGAR BOILERS	61086230	9	9	9	0	0	0							
FEED PELLET MILL OPERAT	61086236	197	199	196	-3	3	0							
STILL OPERATORS	61086291	3	3	3	0	0	0							
WEIGHERS, PRODUCTION	80001016	321	324	324	0	11	11							
CONVEYOR OPERATORS OR T	80001020*	404	412	413	1	8	9							
CANNERY WORKERS	80002824	274	280	281	1	9	10							
TOTALS		2579	2623	2608	-15	71	56							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
SUPPLY:														
AGRICULTURAL PRODUCTS AND	01.0401										2			2
FOOD PRODUCTS	01.0402										2			2
TOTALS											4			4

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: AGRICULTURAL PROCESSING CLUSTER CODE 0270

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
520.485-014	GRAIN MIXER	12	1	12.00	8.75
520.685-098	FEED MIXER	12	0	--	N.A.
520.685-166	MIXING-MACHINE OPERATOR	3	13	0.23	3.75
521.685-122	FEED GRINDER	15	1	15.00	4.00
521.685-254	PROCESSOR, GRAIN	11	0	--	N.A.
524.686-014	NOVELTY WORKER	4	5	0.80	3.35
525.387-010	GRADER, MEAT	6	0	--	N.A.
529.462-010	SIRUP MIXER	1	47	0.02	N.A.
529.686-014	CANNERY WORKER	269	785	0.34	3.76
529.687-186	SORTER, AGRICULTURAL PROD	300	798	0.38	3.79
921.682-014	PALLETIZER OPERATOR 1	5	0	--	N.A.
921.683-026	CONVEYOR OPERATOR	27	6	4.50	4.00

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: AGRICULTURAL SERVICES

CLUSTER CODE 0280

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PURCHASING AGENTS &/OR	10240001*	329	333	336	3	14	17							
BUYERS, RETAIL &/OR WHOL	10240004*	289	291	292	1	9	10							
ANIMAL CARETAKERS	00000200	349	344	341	-3	11	8							
TOTALS		967	968	969	1	34	35							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
AGRICULTURAL PRODUCTION, O	01.0399							3						3
AGRICULTURAL SERVICES AND	01.0501							1536	124					1660
AGRICULTURE SERVICES	01.0502										3		1	4
AGRICULTURAL SUPPLIES MARK	01.0503							2			5			7
ANIMAL GROOMING	01.0504							1			2			3
ANIMAL HEALTH	02.0203							2		3	7			12
PLANT PROTECTION	02.0400										1			1
TOTALS								1544	124	3	18		1	1690

02/24/86
IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: AGRICULTURAL SERVICES — CLUSTER CODE 0280

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
162.157-018	BUYER	72	4	18.00	8.94
162.167-010	BUYER, GRAIN	34	0	--	N.A.
410.674-010	ANIMAL CARETAKER	195	37	5.27	3.59
410.674-018	LIVESTOCK-YARD ATTENDANT	21	1	21.00	5.00
410.674-022	STABLE ATTENDANT	5	0	--	N.A.
418.674-010	DOG GROOMER	6	5	1.20	3.67

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: HORTICULTURE & LANDSCAPE

CLUSTER CODE 0300

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
GARDENERS & GROUNDSKEEP	00001401	2879	3010	3066	56	172	228							
TREE TRIMMERS	00001402	37	38	38	0	1	1							
HORTICULTURE SPECIALTY	90000474	65	63	62	-1	4	3							
MANAGERS,HORT SPECIALTY	90000476	118	124	128	4	1	5							
NURSERY WORKERS	90000484	310	326	337	11	14	25							
TOTALS		3409	3561	3631	70	192	262							
SUPPLY:														
HORTICULTURE	01.0600							2						2
HORTICULTURE, GENERAL	01.0601										1			1
ARBORICULTURE	01.0602										2			2
GREENHOUSE OPERATION AND M	01.0604							2			3			5
LANDSCAPING	01.0605							2	9		3			14
NURSERY OPERATION AND MANA	01.0606							3	63		5			71
TURF MANAGEMENT	01.0607							1	25		5			31
HORTICULTURE SCIENCE	02.0403										2			2
ORNAMENTAL HOTICULTURE	02.0404										4			4
TURF MANAGEMENT	02.0410										2			2
TOTALS								10	97		27			134

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: HORTICULTURE & LANDSCAPE CLUSTER CODE 0300

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
301.687-018	YARD WORKER	1093	712	1.54	4.17
406.683-010	GREENSKEEPER 2	13	6	2.17	3.67
406.684-010	CEMETERY WORKER	16	21	0.76	4.17
406.684-014	GROUNDSKEEPER, INDUSTRIAL	138	92	1.50	4.76
406.687-010	GROUNDSKEEPER, PARKS AND	347	135	2.57	4.45
408.161-010	LANDSCAPE GARDENER	99	32	3.09	4.09
408.684-010	LAWN-SERVICE WORKER	24	63	0.38	4.38
408.687-014	LABORER, LANDSCAPE	142	120	1.18	4.03

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: CONSERVATION

CLUSTER CODE 0330

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
FORESTERS & CONSERV SCI	10241600	292	297	302	5	10	15							
FISH & GAME WARDENS	70100606	14	14	14	0	1	1							
FOREST CONSERVATION WOR	80002831	833	839	841	2	13	15							
TOTALS		1139	1150	1157	7	24	31							
SUPPLY:														
SOIL CONSERVATION	02.0503										1			1
RENEWABLE NATURAL RESOURCE	03.0101							5	18					23
CONSERVATION	03.0202										3			3
RESOURCES PROTECTION AND R	03.0203							1						1
TOTALS								6	18		4			28

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ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: CONSERVATION — CLUSTER CODE 0330

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
451.687-018	SEEDLING PULLER	0	20	0.00	4.23

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: FORESTRY

CLUSTER CODE 0340

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
TIMBER CRUISERS	10081808	1	1	1	0	0	0							
LOGGING TRACTOR OPERATO	50021000	12	13	13	0	0	0							
LOADER ENGINEERS	50140802	2	3	3	0	0	0							
YARDER ENGINEERS	50140803	2	3	3	0	0	0							
LOG INSPECTORS, GRADERS,	50142001	33	37	37	0	1	1							
LUMBER GRADERS	50142002	16	17	17	0	1	1							
VENEER GRADERS	50142003	3	3	3	0	0	0							
PLANER OPERATORS	61081464	15	17	17	0	1	1							
EDGERS, AUTOMATIC &/OR P	61085005	33	37	37	0	2	2							
GANG SAWYERS	61085006	25	27	27	0	1	1							
HEAD SAWYERS	61085008	38	42	42	0	2	2							
RESAWYERS	61085011	32	35	35	0	1	1							
HOT PLATE PLYWOOD PRESS	61086806	4	4	4	0	0	0							
POWER BARKER OPERATORS	61086808	18	19	19	0	1	1							
CHIPPERS	61088408	4	4	4	0	0	0							
LOG HANDLING EQUIPMENT	62001003	15	17	17	0	0	0							
FALLERS &/OR BUCKERS	80001805	29	31	31	0	1	1							
TOTALS		282	310	310	0	11	11							
SUPPLY:														
FORESTRY PRODUCTION AND PR	03.0401							1						1
FOREST PRODUCTION	03.0402										1			1
FOREST PRODUCTS UTILIZATIO	03.0403										1			1
LOGGING	03.0405							1			4			5
TOTALS								2			6			8

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: FORESTRY — CLUSTER CODE 0340

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
929.683-014	TRACTOR OPERATOR	5	0	--	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: GENERAL ADMINISTRATION

CLUSTER CODE 0350

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
PUBLIC RELATIONS SPECIA	10222000	605	608	607	-1	32	31							
PERSONNEL,LABOR REL SPE	10242802	2192	2178	2173	-5	50	45							
ASSESSORS	10243817	532	552	562	10	28	38							
CONTRACT ADMINISTRATORS	10243825	37	39	40	1	2	3							
ALL OTHER PROFESSIONAL	10243899	4709	4806	4871	65	111	176							
PUBLIC ADM INSPECTORS,E	20040800	1310	1331	1348	17	68	85							
CHIEF EXECUTIVES,LEGIS	20041000	2821	2899	2936	37	177	214							
POSTMASTERS &/OR MAIL S	20041200	973	993	1013	20	90	110							
PRINCIPALS	20041601	1751	1747	1748	1	52	53							
ASST. PRINCIPALS	20041602	333	332	332	0	10	10							
SUPERINTENDENTS	20041603	547	546	546	0	22	22							
ALL OTHER MANAGERS	20061699*	51867	52577	52897	320	2103	2423							
TOWN CLERKS	40066840	391	406	413	7	13	20							
TOTALS		68068	69014	69486	472	2758	3230							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
BUSINESS AND MANAGEMENT, G	06.0101								6		2			8
BUSINESS ADMINISTRATION AN	06.0401							21		191	3			215
SYSTEMS EFFICIENCY ANALYSI	06.0404										1		1	2
BUSINESS ADMINISTRATION AN	06.0499									61	1		1	63
MANAGEMENT INFORMATION SYS	06.1201									20				20
TOTALS								21	6	272	7		2	300

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IOWA OCCUPATIONAL INFORMATION NETWORK

ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: GENERAL ADMINISTRATION CLUSTER CODE 0350

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
096.121-014	HOME ECONOMIST	22	3	7.33	8.31
099.117-018	PRINCIPAL	5	0	--	N.A.
132.037-022	EDITOR, PUBLICATIONS	6	0	--	N.A.
137.267-014	INTERPRETER, DEAF	5	0	--	N.A.
159.117-010	PRODUCER	15	2	7.50	5.28
159.344-018	SHOW-HORSE DRIVER	0	11	0.00	N.A.
159.647-010	AMUSEMENT PARK ENTERTAINE	0	39	0.00	4.50
161.167-010	MANAGEMENT ANALYST	19	2	9.50	9.57
163.167-010	MANAGER, ADVERTISING	25	11	2.27	N.A.
163.167-018	MANAGER, SALES	437	42	10.40	7.24
164.117-010	MANAGER, ADVERTISING	9	0	--	N.A.
165.067-010	PUBLIC-RELATIONS REPRESEN	224	6	37.33	9.37
166.117-018	MANAGER, PERSONNEL	103	11	9.36	10.76
166.167-010	CONTESTANT COORDINATOR	7	0	--	N.A.
166.167-018	MANAGER, BENEFITS	25	0	--	N.A.
166.167-030	MANAGER, EMPLOYMENT	5	0	--	N.A.
166.167-034	MANAGER, LABOR RELATIONS	5	0	--	N.A.
166.227-010	TRAINING REPRESENTATIVE	12	3	4.00	9.31
168.167-054	MANAGER, CREDIT AND COLLE	29	4	7.25	4.68
169.167-010	ADMINISTRATIVE ASSISTANT	1027	84	12.23	5.98
169.167-014	ADMINISTRATIVE SECRETARY	41	6	6.83	6.43
169.167-030	MANAGER, ELECTRONIC DATA	7	1	7.00	11.54
169.167-034	MANAGER, OFFICE	587	52	11.29	6.36
182.167-010	CONTRACTOR	12	0	--	N.A.
182.167-026	SUPERINTENDENT, CONSTRUCT	73	11	6.64	8.80
183.117-010	MANAGER, BRANCH	167	7	23.86	6.14
183.117-014	PRODUCTION SUPERINTENDENT	290	22	13.18	8.36
183.167-018	GENERAL SUPERVISOR	176	26	6.77	8.63
184.163-010	TRAFFIC INSPECTOR	7	1	7.00	8.17
185.167-010	COMMISSARY MANAGER	42	5	8.40	4.37
185.167-030	MANAGER, MEAT SALES AND S	12	0	--	N.A.
186.117-014	CONTROLLER	34	9	3.78	11.09
186.117-038	MANAGER, FINANCIAL INSTIT	53	16	3.31	6.48
186.117-054	PRESIDENT, FINANCIAL INST	7	0	--	N.A.
186.117-070	TREASURER, FINANCIAL INST	5	0	--	N.A.
186.167-018	MANAGER, APARTMENT HOUSE	79	19	4.16	4.66
186.167-022	MANAGER, CREDIT CARD OPER	10	0	--	N.A.
186.167-034	MANAGER, INSURANCE OFFICE	10	0	--	N.A.
186.167-042	MANAGER, MARKET	5	0	--	N.A.
186.167-046	MANAGER, PROPERTY	11	0	--	N.A.
186.167-054	RESERVE OFFICER	8	0	--	N.A.
186.267-018	LOAN OFFICER	95	15	6.33	6.95
187.117-014	DIRECTOR, COMMUNITY ORGAN	21	3	7.00	6.39
187.117-018	DIRECTOR, INSTITUTION	5	2	2.50	11.06
187.117-026	EXECUTIVE DIRECTOR, SHELT	7	1	7.00	3.35

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STATEWIDE ..(Continued) IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: GENERAL ADMINISTRATION CLUSTER CODE 0350

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
187.167-010	APPLIANCE-SERVICE SUPERVI	11	0	--	N.A.
187.167-014	BOOKMAKER	5	0	--	N.A.
187.167-018	BUSINESS REPRESENTATIVE,	5	0	--	N.A.
187.167-082	MANAGER, CUSTOMER SERVICE	5	0	--	N.A.
187.167-142	MANAGER, SERVICE DEPARTME	12	0	--	N.A.
187.167-186	RESIDENCE SUPERVISOR	7	38	0.18	4.46
188.117-106	FOREIGN-SERVICE OFFICER	8	0	--	N.A.
189.117-022	MANAGER, INDUSTRIAL ORGAN	36	5	7.20	6.16
189.117-026	PRESIDENT	5	0	--	N.A.
189.167-010	CONSULTANT	227	15	15.13	6.41
189.167-014	DIRECTOR, SERVICE	42	2	21.00	5.59
189.167-018	MANAGEMENT TRAINEE	2095	402	5.21	4.61
189.167-022	MANAGER, DEPARTMENT	243	19	12.79	5.52
189.167-030	PROGRAM MANAGER	14	3	4.67	7.96
189.167-034	SECURITY OFFICER	21	3	7.00	4.39
189.167-050	SUPERINTENDENT, PLANT PRO	12	1	12.00	9.62
195.117-010	ADMINISTRATOR, SOCIAL WEL	12	3	4.00	8.49
299.137-010	MANAGER, DEPARTMENT	170	31	5.48	4.06
379.364-010	AUTOMOBILE TESTER	14	0	--	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: ADVANCED ACCOUNTING

CLUSTER CODE 0360

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
BUDGET ANALYSTS	10240202	157	161	163	2	5	7							
TAX EXAMINERS,COLLECTRS	10240203	635	643	650	7	33	40							
TAX PREPARERS	10240204	370	369	368	-1	11	10							
TOTALS		1162	1173	1181	8	49	57							

SUPPLY:

NO SUPPLY REPORT

NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: ACCOUNTING & BOOKKEEPING

CLUSTER CODE 0370

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ACCOUNTANTS & AUDITORS	10240201	8500	8598	8655	57	258	315							
BOOKKEEPING/BILLING MAC	40040201	2628	2663	2670	7	64	71							
PROOF MACHINE OPERATORS	40040202	815	829	833	4	20	24							
ACCOUNTING CLERKS	40060601	7927	8059	8103	44	379	423							
BOOKKEEPERS, HAND	40060603	12859	12998	13049	51	611	662							
CHECKING CLERKS	40062209	214	220	221	1	10	11							
PAYROLL/TIMEKEEPING CLE	40064000	2012	2034	2039	5	71	76							
ACTUARIAL CLERKS	40065204	36	39	41	2	1	3							
RATERS	40065209	741	788	813	25	12	37							
STATISTICAL CLERKS	40065211	1179	1274	1297	23	37	60							
COIN MACH OPS/CURRENCY	40066803	41	42	42	0	1	1							
STATEMENT CLERKS	40066823	489	498	502	4	13	17							
SORTING CLERKS, BANK	40066844	117	119	119	0	9	9							
TOTALS		37558	38161	38384	223	1486	1709							
SUPPLY:														
ACCOUNTING	06.0200							37						37
ACCOUNTING	06.0200C								28					28
ACCOUNTING, GENERAL	06.0201									137	2			139
TAXATION	06.1901									40				40
ACCOUNTING, BOOKKEEPING, A	07.0101							27		29				56
ACCOUNTING, BOOKKEEPING, A	07.0101J											1		1
ACCOUNTING AND COMPUTING	07.0102							12	222	52	17		16	319
BOOKKEEPING	07.0103							41	170		32		1	244
MACHINE BILLING, BOOKKEEPI	07.0104							22		3	6			31
ACCOUNTING, BOOKKEEPING, A	07.0199							1		4				5
TOTALS								140	420	265	57	1	17	900

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: ACCOUNTING & BOOKKEEPING CLUSTER CODE 0370

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
160.162-014	AUDITOR	35	9	3.89	7.06
160.167-010	ACCOUNTANT	790	118	6.69	7.49
160.167-014	ACCOUNTANT, BUDGET	8	1	8.00	7.21
160.167-018	ACCOUNTANT, COST	35	13	2.69	8.02
160.267-014	DIRECTOR, UTILITY ACCOUNT	0	11	0.00	8.48
210.362-010	DISTRIBUTION-ACCOUNTING C	28	6	4.67	4.19
210.382-010	AUDIT CLERK	171	26	6.58	4.31
210.382-014	BOOKKEEPER 1	2754	367	7.50	4.39
210.382-018	BOOKKEEPER 2	491	110	4.46	4.50
210.382-022	BOOKKEEPING-MACHINE OPERA	7	0	--	N.A.
210.382-026	BOOKKEEPING-MACHINE OPERA	6	1	6.00	5.00
210.382-054	NIGHT AUDITOR	6	12	0.50	3.72
214.382-014	BILLING TYPIST	20	34	0.59	4.44
214.482-010	BILLING-MACHINE OPERATOR	21	3	7.00	4.52
214.482-022	RATER	21	7	3.00	5.10
215.367-022	TIMEKEEPER	21	7	3.00	6.05
215.482-010	PAYROLL CLERK	77	18	4.28	5.31
216.362-010	BOND CLERK	16	1	16.00	4.39
216.382-010	ACCOUNTING CLERK, DATA PR	14	4	3.50	4.52
216.382-018	BALANCE CLERK	5	0	--	N.A.
216.382-058	RETURNED-ITEM CLERK	0	5	0.00	4.86
216.382-062	STATISTICAL CLERK	17	25	0.68	3.85
216.482-010	ACCOUNTING CLERK	1603	369	4.34	4.62
216.587-014	POSTING CLERK	5	5	1.00	4.29
217.382-010	PROOF-MACHINE OPERATOR	42	36	1.17	4.04
219.487-010	TAX CLERK 1	5	4	1.25	5.09
245.362-010	MEDICAL-RECORD CLERK	22	24	0.92	5.09

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: FINANCIAL SERVICES

CLUSTER CODE 0380

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CREDIT ANALYSTS, CHIEF	10243809	200	204	208	4	6	10							
CREDIT ANALYSTS	10243810	317	328	333	5	10	15							
BROKER'S FL REPS, SEC TR	10243819	24	25	26	1	1	2							
TOTALS		541	557	567	10	17	27							
SUPPLY:														
INSURANCE CLERK	07.0203							1			4			5
TOTALS								1			4			5

NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: BANKING SERVICES

CLUSTER CODE 0390

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
BROKER & MARKET OPERATO	30001601	108	113	116	3	6	9							
SALES AGENTS, SALES REPS	30001604	269	279	284	5	15	20							
SALES AGENTS, SALES REPS	30001605	632	660	678	18	36	54							
TRANSIT CLERKS	40040203	77	78	79	1	1	2							
NEW ACCOUNTS TELLERS	40060201	789	809	820	11	22	33							
TELLERS	40060203	5651	5769	5817	48	121	169							
COLLECTORS	40061400	804	845	864	19	46	65							
CREDIT AUTHORIZERS	40062201	142	142	142	0	5	5							
CREDIT REFERENCE CLERKS	40062202	45	46	45	-1	2	1							
CREDIT REPORTERS	40062211	112	123	126	3	3	6							
BROKERAGE CLERKS	40065205	35	37	37	0	1	1							
TRADE RECORDERS	40065207	4	4	4	0	0	0							
MARGIN CLERKS	40065208	2	3	3	0	0	0							
LOAN CLOSERS	40066801	547	565	572	7	19	26							
DIVIDEND CLERKS	40066802	2	3	3	0	0	0							
SECURITIES CASHERS, EXCH	40066814	20	20	21	1	1	2							
PURCHASE & SALES CLERKS	40066816	7	7	8	1	0	1							
SAFE DEPOSIT CLERKS	40066820	186	190	191	1	6	7							
SECURITY DESCRIPTION CL	40066822	11	12	12	0	0	0							
TRANSFER CLERKS	40066827	2	3	3	0	0	0							
CREDIT CLERKS, BANK&/ORI	40066841	487	502	508	6	14	20							
MORTGAGE CLOSING CLERKS	40066842	204	210	215	5	16	21							
INSURANCE CLERKS	40066845	36	39	39	0	1	1							
TOTALS		10172	10459	10587	128	315	443							
SUPPLY:														
BANKING AND FINANCE	06.0301							4		4				8
BANKING & REL. FINANCE, GE	07.0201							17						17
CREDIT COLLECTION CLERK	07.0202							1			5			6
LOAN CLERK	07.0204										1			1
TELLER	07.0205							20						20
FINANCIAL SERVICES MARKETI	08.0401							26	779					805
BANKING MARKETING	08.0402							5			2			7
TOTALS								73	779	4	8			864

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: BANKING SERVICES — CLUSTER CODE 0390

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
203.382-022	MORTGAGE-PROCESSING CLERK	1	6	0.17	5.10
205.362-026	NEW-ACCOUNTS CLERK	11	1	11.00	4.50
205.367-022	CREDIT CLERK	43	26	1.65	4.41
211.362-014	FOREIGN BANKNOTE TELLER-T	34	2	17.00	3.50
211.362-018	TELLER	464	279	1.66	4.13
219.362-018	BROKERAGE CLERK 2	29	2	14.50	3.35
219.462-010	COUPON CLERK	82	73	1.12	3.36
241.357-010	COLLECTION CLERK	37	49	0.76	4.58
241.367-010	COLLECTOR	17	21	0.81	5.23
251.157-010	SALES AGENT, SECURITIES	6	21	0.29	6.62

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: OFFICE SUPERVISION & MGT.

CLUSTER CODE 0400

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CLERICAL SUPERVISORS	40061200	5647	5798	5877	79	186	265							
TOTALS		5647	5798	5877	79	186	265							
SUPPLY:														
OFFICE SUPERVISION AND MAN	07.0401							4	18	8	12		6	48
OFFICE SUPERVISION AND MAN	07.0401C								5					5
SUPERVISOR, GOVERNMENT SER	43.9999							3						3
TOTALS								7	23	8	12		6	56

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ANALYSIS INFORMATION
STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: OFFICE SUPERVISION & MGT. CLUSTER CODE 0400

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
211.137-014	SUPERVISOR, FOOD CHECKERS	2	5	0.40	4.00
213.132-010	SUPERVISOR, COMPUTER OPER	27	4	6.75	8.52
216.132-010	SUPERVISOR, ACCOUNTING CL	8	0	--	N.A.
222.137-030	SHIPPING-AND-RECEIVING SU	134	5	26.80	8.57
222.137-034	STOCK SUPERVISOR	12	2	6.00	6.84

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: EDUCATIONAL ASSISTING

CLUSTER CODE 0410

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
TEACHERS AIDES/EDUC ASS	40065600	4239	4217	4231	14	114	128							
TOTALS		4239	4217	4231	14	114	128							
SUPPLY:														
EDUCATIONAL ASSISTING AND	07.0502							18			4			22
EDUCATIONAL ASSISTING AND	07.0502C								27					27
TOTALS								18	27		4			49

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ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: EDUCATIONAL ASSISTING CLUSTER CODE 0410

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
099.327-010	TEACHER AIDE 1	131	24	5.46	4.31
249.367-074	TEACHER AIDE 2	232	26	8.92	3.88

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PERSONNELL ASSISTING

CLUSTER CODE 0420

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
EMPLOYMENT INTERVIEWERS	10242003	791	819	828	9	19	28							
CLAIMS TAKERS, UNEMP BEN	10243010	249	249	249	0	6	6							
PERSONNEL CLERKS	40062602	820	839	845	6	15	21							
ADMISSIONS EVALUATORS	40062603	231	229	229	0	6	6							
TOTALS		2091	2136	2151	15	46	61							
SUPPLY:														
PERSONNEL ASSISTING	07.0503							1			7		37	45
TOTALS								1			7		37	45

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: PERSONNELL ASSISTING CLUSTER CODE 0420

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
166.267-010	EMPLOYMENT INTERVIEWER	120	72	1.67	6.07
205.362-014	EMPLOYMENT CLERK	15	16	0.94	4.16
209.362-026	PERSONNEL CLERK	43	5	8.60	6.31

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: SECRETARIAL - STENOGRAPHIC

CLUSTER CODE 0430

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SECRETARIES	40020200*	25110	25330	25451	121	659	780							
STENOGRAPHERS	40020400	2076	2127	2149	22	66	88							
TOTALS		27186	27457	27600	143	725	868							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
SECRETARIAL AND RELATED PR	07.0601							62	239	2				303
SECRETARIAL AND RELATED PR	07.0601C								34					34
SECRETARIAL AND RELATED PR	07.0601J											2		2
COURT REPORTING	07.0602									60			2	62
EXECUTIVE SECRETARIAL	07.0603							21	44	154	2			221
SECRETARIAL	07.0606							61	297	166	44			568
STENOGRAPHIC	07.0607							31						31
SECRETARIAL AND RELATED PR	07.0699									5				5
TOTALS								175	614	387	46	2	2	1226

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IOWA OCCUPATIONAL INFORMATION NETWORK

ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: SECRETARIAL - STENOGRAPHIC CLUSTER CODE 0430

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
201.362-018	MEMBERSHIP SECRETARY	51	8	6.38	4.04
201.362-030	SECRETARY	4473	873	5.12	4.63
202.362-014	STENOGRAPHER	6	1	6.00	5.48

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: LEGAL SECRETARIAL

CLUSTER CODE 0440

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SECRETARIES	40020200*	2058	2076	2086	10	54	64							
TOTALS		2058	2076	2086	10	54	64							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
LEGAL SECRETARIAL, GENERAL	07.0604							9	44	56	4		2	115
LEGAL SECRETARIAL, GENERAL	07.0604C								7					7
TOTALS								9	51	56	4		2	122

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: LEGAL SCCRETARIAL CLUSTER CODE 0440

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
201.362-010	LEGAL SECRETARY	627	171	3.67	4.76

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MEDICAL SECRETARIAL

CLUSTER CODE 0450

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SECRETARIES	40020200*	2235	2254	2265	11	59	70							
INSURANCE CLERKS, MEDICA	40066846	1229	1228	1230	2	14	16							
TOTALS		3464	3482	3495	13	73	86							
SUPPLY:														
MEDICAL SECRETARIAL, GENER	07.0605							4	73	26	1			104
MEDICAL SECRETARIAL, GENER	07.0605C								16					16
TOTALS								4	89	26	1			120

* indicates occupation code occurs in other clusters.

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MEDICAL SECRETARIAL — CLUSTER CODE 0450

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
201.362-014	MEDICAL SECRETARY	190	33	5.76	4.83
214.362-022	INSURANCE CLERK	31	17	1.82	4.58

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: TYPING

CLUSTER CODE 0460

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
TYPISTS	40020600	9459	9663	9754	91	242	333							
PROOFREADERS, CLERICAL	40064411	8	9	9	0	1	1							
TOTALS		9467	9672	9763	91	243	334							
SUPPLY:														
WORD PROCESSING	07.0608							46	42	105	5			198
CLERK-TYPIST	07.0702							95	45		3		18	161
TYPING	07.0710							44						44
TOTALS								185	87	105	8		18	403

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: TYPING CLUSTER CODE 0460

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
203.362-010	CLERK-TYPIST	1847	626	2.95	4.59
203.362-018	TERMINAL-SYSTEM OPERATOR	63	23	2.74	4.22
203.582-010	BRAILLE OPERATOR	41	28	1.46	3.45
203.582-034	MAGNETIC-TAPE-TYPEWRITER	26	26	1.00	5.27
203.582-054	TERMINAL OPERATOR	222	196	1.13	4.44
203.582-066	TYPIST	86	73	1.18	4.32

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: GENERAL OFFICE CLERICAL

CLUSTER CODE 0470

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DUPLICATING MACHINE OPE	40040800	271	284	290	6	7	13							
ALL OTHER OFFICE MACHIN	40041400	1042	1086	1099	13	21	34							
ADDRESSING MACHINE OPER	40041402	77	86	88	2	2	4							
INSERTING & LABELING MA	40041404	533	588	603	15	11	26							
ORDER CLERKS	40061604	2384	2409	2414	5	70	75							
CIRCULATION CLERKS	40061605	120	130	130	0	3	3							
TELEPHONE AD TAKERS,NEW	40061607	151	161	161	0	2	2							
ADJUSTMENT CLERKS	40062208	519	526	529	3	16	19							
CLAIMS CLERKS	40062210	596	624	640	16	16	32							
FILE CLERKS	40062601	3493	3569	3613	44	96	140							
MAIL CLERKS	40063402	913	952	974	22	33	55							
POSTAL SERVICE CLERKS	40064200	1018	1038	1058	20	37	57							
INFORMATION CLERKS	40064801	1	1	1	0	0	0							
RECEPTIONISTS	40064802	5186	5201	5202	1	198	199							
SWITCHBD OPS & RECEPTIO	40064803	2553	2584	2592	8	98	106							
WORKSHEET CLERKS	40065212	262	284	296	12	8	20							
INSURANCE CHECKERS	40065217	450	476	494	18	12	30							
CANCELLATION CLERKS	40066805	69	74	78	4	2	6							
CORRESPONDENCE CLERKS	40066807	287	306	319	13	8	21							
GENERAL CLERKS,OFFICE	40066811	25641	26271	26507	236	1156	1392							
POLICY CHANGE CLERKS	40066815	321	339	352	13	9	22							
REAL ESTATE CLERKS	40066818	67	70	70	0	3	3							
SERVICE CLERKS	40066824	350	345	342	-3	6	3							
LICENSE CLERKS	40066848	188	194	197	3	6	9							
ALL OTHER OFFICE CLERIC	40066898	5949	6127	6255	128	196	324							
MAILERS	61089097	204	215	214	-1	8	7							
TOTALS		52645	53940	54518	578	2024	2602							
SUPPLY:														
TYPING, GENERAL OFFICE, AN	07.0700							88						88
TYPING, GENERAL OFFICE, AN	07.0700C								13					13
TYPING, GENERAL OFFICE, AN	07.0701							378	31					409
TYPING, GENERAL OFFICE, AN	07.0701J											33		33
DUPLICATING MACHINE OPERAT	07.0704							7			1			8
GENERAL OFFICE CLERK	07.0705							94	386		21		67	568
RECEPTIONIST AND COMMUNICA	07.0707							13		5	24		20	62
TYPING, GENERAL OFFICE, AN	07.0799							14		27				41
TOTALS								594	430	32	46	33	87	1222

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: GENERAL OFFICE CLERICAL — CLUSTER CODE 0470

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
203.582-058	TRANSCRIBING-MACHINE OPER	19	42	0.45	4.91
205.362-018	HOSPITAL-ADMITTING CLERK	24	13	1.85	5.31
206.362-010	FILE CLERK 1	311	43	7.23	4.00
206.367-014	FILE CLERK 2	17	7	2.43	4.28
207.685-018	PHOTOGRAPHIC-MACHINE OPER	0	6	0.00	4.00
208.685-018	INSERTING-MACHINE OPERATO	73	536	0.14	3.60
208.685-022	MICROFILM MOUNTER	10	1	10.00	4.61
209.262-010	CORRESPONDENCE CLERK	11	0	--	N.A.
209.362-010	CIRCULATION CLERK	90	6	15.00	5.19
209.362-014	CONTROL CLERK, AUDITING	54	9	6.00	4.18
209.362-018	CREDIT-REFERENCE CLERK	10	0	--	N.A.
209.387-014	COMPILER	0	8	0.00	3.40
209.562-010	CLERK, GENERAL	7802	1460	5.34	3.94
209.562-014	TRUST-MAIL CLERK	55	6	9.17	3.73
209.567-014	ORDER CLERK, FOOD AND BEV	0	9	0.00	N.A.
209.582-010	MUSIC COPYIST	9	0	--	N.A.
209.587-010	ADDRESSER	10	3	3.33	3.40
209.587-022	HISTORY-CARD CLERK	12	0	--	N.A.
209.587-026	MAIL CLERK	220	91	2.42	4.36
209.687-010	CHECKER 2	43	11	3.91	3.86
209.687-014	MAIL HANDLER	14	1	14.00	9.00
211.582-010	FOOD TABULATOR, CAFETERIA	0	8	0.00	3.36
216.482-014	ADDING-MACHINE OPERATOR	14	8	1.75	3.90
219.362-010	ADMINISTRATIVE CLERK	5229	1540	3.40	4.34
219.362-014	ATTENDANCE CLERK	30	13	2.31	4.29
219.367-038	UNDERWRITING CLERK	9	8	1.13	4.89
219.387-014	INSURANCE CLERK 1	25	5	5.00	4.40
219.482-014	INSURANCE CHECKER	0	5	0.00	4.94
221.367-070	SERVICE CLERK	5	0	--	N.A.
222.367-022	EXPRESS CLERK	10	0	--	N.A.
222.387-038	PARCEL-POST CLERK	9	2	4.50	6.50
222.387-054	SORTER-PRICER	3	8	0.38	3.35
222.587-030	MAILER	1	5	0.20	3.42
237.367-010	APPOINTMENT CLERK	45	24	1.88	3.62
237.367-018	INFORMATION CLERK	5	0	--	N.A.
237.367-038	RECEPTIONIST	2277	588	3.87	4.10
241.362-010	CLAIMS CLERK 1	19	3	6.33	4.35
241.367-014	CUSTOMER-COMPLAINT CLERK	37	13	2.85	5.43
243.367-014	POST-OFFICE CLERK	9	6	1.50	6.50
245.362-014	WARD CLERK	78	17	4.59	5.03
247.387-018	ADVERTISING-SPACE CLERK	0	10	0.00	3.48
249.262-010	POLICYHOLDER-INFORMATION	22	0	--	N.A.
249.367-010	ANIMAL-SHELTER CLERK	7	3	2.33	4.93
249.367-054	ORDER CLERK	109	51	2.14	4.34
299.467-010	LAYAWAY CLERK	0	12	0.00	3.35
369.477-014	SERVICE-ESTABLISHMENT ATT	0	5	0.00	3.41

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: SHIPPING, RECEIVING & STOCK

CLUSTER CODE 0480

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
T I T L E		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
PRODUCTION CLERKS	40062400	2045	2092	2116	24	77	101							
SHIPPING & RECEIVING CL	40065001	3274	3317	3324	7	86	93							
SHIPPING PACKERS	40065002	2810	2853	2868	15	68	83							
PROCUREMENT CLERKS	40065402	539	550	550	0	18	18							
STOCK CLERKS, STOCKRM, WA	40065404*	7888	7946	7971	25	254	279							
TRANSPORTATION AGENTS	40066404	57	58	59	1	2	3							
WEIGHERS, RECORD KEEPING	40066600	308	318	313	-5	13	8							
RATE CLERKS, FREIGHT	40066838	169	177	177	0	3	3							
ORDER FILLERS	80002001	3863	3865	3873	8	124	132							
STOCK CLERKS, SALES FLOO	80002003*	4139	4233	4252	19	220	239							
TOTALS		25092	25409	25503	94	865	959							

* indicates occupation code occurs in other clusters.

SUPPLY:														
MAIL AND ORDER CLERK	07.0706							18			8		5	31
SHIPPING, RECEIVING, AND S	07.0708							38			32		129	199
TRAFFIC, RATE & TRANS. CLE	07.0709										1			1
CENTRAL SUPPLY TECHNOLOGY	17.0502										1			1
TOTALS								56			42		134	232

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IOWA OCCUPATIONAL INFORMATION NETWORK

ANALYSIS INFORMATION

STATEWIDE | IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: SHIPPING, RECEIVING & STOCK | CLUSTER CODE 0480

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
214.362-038	TRAFFIC-RATE CLERK	16	2	8.00	5.83
219.362-030	EXTENSION CLERK	55	5	11.00	4.23
219.367-034	STOCK-CONTROL CLERK	41	6	6.83	5.50
221.167-014	MATERIAL COORDINATOR	47	4	11.75	6.34
221.167-018	PRODUCTION COORDINATOR	42	7	6.00	5.82
221.367-042	MATERIAL EXPEDITER	29	3	9.67	6.60
221.382-018	PRODUCTION CLERK	21	4	5.25	5.91
222.367-018	EXPEDITER	15	1	15.00	6.25
222.367-042	PARTS CLERK	384	57	6.74	4.37
222.367-062	TOOL-CRIB ATTENDANT	35	0	--	N.A.
222.387-010	AIRCRAFT-SHIPPING CHECKER	45	19	2.37	3.63
222.387-026	INVENTORY CLERK	220	124	1.77	4.53
222.387-030	LINEN-ROOM ATTENDANT	2	5	0.40	4.32
222.387-050	SHIPPING AND RECEIVING CL	971	209	4.65	3.92
222.387-058	STOCK CLERK	1047	428	2.45	3.62
222.487-014	ORDER FILLER	13	8	1.63	3.39
222.687-018	RECEIVING CHECKER	12	5	2.40	3.50
249.367-058	PARTS-ORDER-AND-STOCK CLE	6	1	6.00	5.00
249.367-066	PROCUREMENT CLERK	17	4	4.25	5.12
299.367-014	STOCK CLERK, SELF-SERVICE	606	282	2.15	3.81
355.687-010	CLOTHES-ROOM WORKER	1	6	0.17	3.47
919.687-010	CHECKER	8	0	--	N.A.
920.587-010	CLOTH-BOLT BANDER	29	51	0.57	5.40
922.687-058	LABORER, STORES	3622	1707	2.12	4.18

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MISCELLANEOUS CLERICAL

CLUSTER CODE 0490

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SURVEY WORKERS	40062000	182	207	213	6	6	12							
BOX ESTIMATORS	40062222	18	18	17	-1	1	0							
MESSENGERS, BANK	40063601	50	51	51	0	4	4							
MESSENGERS	40063602	316	329	335	6	27	33							
METER READERS	40063800	782	804	811	7	24	31							
COURT CLERKS	40065216	175	181	184	3	6	9							
CALL-OUT OPERATORS	40066804	32	36	37	1	1	2							
MARKING CLERKS TRADE	40066829	572	575	575	0	15	15							
ALL OTHER PLANT CLERICA	40066899	717	709	712	3	28	31							
TOTALS		2844	2910	2935	25	112	137							

SUPPLY:

NO SUPPLY REPORT

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MISCELLANEOUS CLERICAL CLUSTER CODE 0490

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
205.367-054	SURVEY WORKER	27	113	0.24	3.86
209.567-010	METER READER	5	1	5.00	7.00
209.587-034	MARKER	47	13	3.62	3.45
221.587-030	TALLIER	5	7	0.71	3.76
230.667-010	DELIVERER, OUTSIDE	26	79	0.33	4.65
237.367-030	MANAGER, TRAFFIC 2	12	6	2.00	4.09
239.567-010	OFFICE HELPER	46	4	11.50	3.35
381.687-010	CENTRAL-SUPPLY WORKER	141	31	4.55	3.54
976.687-018	PHOTOFINISHING LABORATORY	8	26	0.31	3.59

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: HOTEL - MOTEL MANAGEMENT

CLUSTER CODE 0500

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ALL OTHER MANAGERS	20061699*	659	668	672	4	27	31							
DESK CLERKS	40061603	1079	1157	1190	33	80	113							
SUPERVISORS,NONWORKING,	70200001*	93	95	95	0	5	5							
TOTALS		1831	1920	1957	37	112	149							
SUPPLY:														
HOTEL/MOTEL MANAGEMENT	06.0701							1	21		1			23
RESORT MANAGEMENT	06.0703										1			1
MARKETING OF HOTEL/MOTEL S	08.0302							1			3			4
TOTALS								2	21		5			28

* indicates occupation code occurs in other clusters.

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IOWA OCCUPATIONAL INFORMATION NETWORK

ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: HOTEL - MOTEL MANAGEMENT — CLUSTER CODE 0500

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
163.167-018	MANAGER, SALES	437	42	10.40	7.24
164.117-010	MANAGER, ADVERTISING	9	0	--	N.A.
168.167-054	MANAGER, CREDIT AND COLLE	29	4	7.25	4.68
169.167-034	MANAGER, OFFICE	587	52	11.29	6.36
187.117-038	MANAGER, HOTEL OR MOTEL	35	15	2.33	6.16
187.161-010	EXECUTIVE CHEF	5	0	--	N.A.
187.167-046	EXECUTIVE HOUSEKEEPER	16	1	16.00	5.00
187.167-190	SUPERINTENDENT, BUILDING	6	0	--	N.A.
189.167-018	MANAGEMENT TRAINEE	2095	402	5.21	4.61
238.362-010	HOTEL CLERK	223	195	1.14	3.54
310.137-014	KITCHEN SUPERVISOR	18	12	1.50	4.33
311.137-010	COUNTER SUPERVISOR	5	0	--	N.A.
320.137-014	MANAGER, LODGING FACILITI	60	15	4.00	3.59

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: RECREATION & TOURISM

CLUSTER CODE 0510

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN
DEMAND DATA:							
GROUP RECREATION WORKER	10243201*	2370	2329	2317	-12	107	95
CAMP DIRECTORS	10243206	9	9	10	1	0	1
TRAVEL AGTS, TR ACCOM AP	10243821	463	474	483	9	25	34
ALL OTHER MANAGERS	20061699*	791	802	807	5	32	37
DESK CLERKS, BOWLING FLO	40061608	190	202	208	6	8	14
TRAVEL COUNSELORS, AUTO	40064804	173	166	162	-4	2	-2
STATION AGENTS	40066401	43	41	40	-1	2	1
TRAFFIC AGENTS	40066402	163	172	173	1	6	7
RESERVATION AGENTS	40066403	71	69	68	-1	1	0
TICKET AGENTS	40066405	456	461	467	6	7	13
TRAVEL CLERKS	40066828	536	513	503	-10	8	-2
FILM BOOKERS	40066833	12	12	13	1	0	1
MOTION PICTURE PROJECTI	50142800	107	113	117	4	4	8
RECREATION FACILITY ATT	70080401	1545	1599	1619	20	61	81
GAME OPS, RIDE OPS, CONCE	70080402	263	296	301	5	11	16
GUIDES, TRAVEL	70080608	1	1	1	0	0	0
GUIDES, SIGHTSEEING OR E	70080619	73	73	75	2	6	8
USHERS, LOBBY ATTNS, TICK	70082800	480	534	546	12	18	30
TOTALS		7746	7866	7910	44	298	342

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:								
RECREATIONAL ENTERPRISES M	06.0702	5						5
RECREATIONAL ENTERPRISES M	06.0702C		18					18
MARKETING OF RECREATIONAL	08.0903	2			2			4
RECREATIONAL PRODUCTS MARK	08.0904	3			8			11
TRANSPORTATION AND TRAVEL	08.1101	1		11				
PASSENGER TRANSPORTATION M	08.1103				3			3
TRAVEL SERVICES MARKETING	08.1105			53	1		3	57
TOTALS		11	18	64	14		3	98

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IOWA OCCUPATIONAL INFORMATION NETWORK

ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: RECREATION & TOURISM — CLUSTER CODE 0510

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
159.124-010	COUNSELOR, CAMP	5	16	0.31	3.85
169.167-034	MANAGER, OFFICE	587	52	11.29	6.36
169.167-042	PARK RANGER	3	332	0.01	6.92
187.117-042	MANAGER, RECREATION ESTAB	16	1	16.00	9.62
187.137-010	RECREATION SUPERVISOR	105	31	3.39	6.28
187.137-014	SUPERVISOR, VOLUNTEER SER	5	3	1.67	8.44
189.117-026	PRESIDENT	5	0	--	N.A.
189.167-018	MANAGEMENT TRAINEE	2095	402	5.21	4.61
189.167-022	MANAGER, DEPARTMENT	243	19	12.79	5.52
189.167-030	PROGRAM MANAGER	14	3	4.67	7.96
195.227-010	PROGRAM AIDE, GROUP WORK	72	42	1.71	4.30
195.227-014	RECREATION LEADER	84	15	5.60	4.30
238.367-026	TICKET AGENT	12	10	1.20	3.51
252.157-010	TRAVEL AGENT	60	16	3.75	4.29
341.367-010	RECREATION-FACILITY ATTEN	8	9	0.89	3.48
342.457-010	GAME ATTENDANT	10	120	0.08	3.40
342.663-010	RIDE OPERATOR	22	86	0.26	3.40
342.677-010	RIDE ATTENDANT	7	128	0.05	N.A.
343.467-014	FLOOR ATTENDANT	0	7	0.00	3.40
344.667-010	TICKET TAKER	2	81	0.02	3.45
344.677-014	USHER	0	18	0.00	5.00
349.673-010	DRIVE-IN THEATER ATTENDAN	0	8	0.00	N.A.
353.367-014	GUIDE, ESTABLISHMENT	0	15	0.00	3.46

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                              IOWA  OCCUPATIONAL  INFORMATION  NETWORK
                              S U P P L Y - D E M A N D   R E P O R T
STATEWIDE
CLUSTER TITLE:  TRANSPORTATION MANAGEMENT
                                                                                        CLUSTER CODE 0530
-----------------------------------------------------------------------------------------------------------------------------
    - OCCUPATION/PROGRAM -  CODE      1985  1987  1988  (ESTIMATED '87-'88) PUBLIC  PUBLIC  PRIVATE  JTPA/  APPRE- MILIT-   TOTAL
      T I T L E                       EMPL  EMPL  EMPL  GROWTH REPLAC OPEN  SECOND  P. SEC  P. SEC   OJT    TICE   ARY
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          DEMAND DATA:
ALL OTHER MANAGERS     20061699*  2900  2940  2957     17    118    135
                                  ----------------------------------------
TOTALS                            2900  2940  2957     17    118    135


  * indicates occupation code occurs in other clusters.

          SUPPLY:
TRANSPORTATION MANAGEMENT   06.0705                                        1                      2             1      4
TRANSPORTATION MANAGEMENT   06.0705C                                               6                                   6
                                                                    ----------------------------------------------------
TOTALS                                                                     1       6              2             1     10
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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: TRANSPORTATION MANAGEMENT — CLUSTER CODE 0530

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
163.167-010	MANAGER, ADVERTISING	25	11	2.27	N.A.
163.167-018	MANAGER, SALES	437	42	10.40	7.24
164.117-010	MANAGER, ADVERTISING	9	0	--	N.A.
168.167-054	MANAGER, CREDIT AND COLLE	29	4	7.25	4.68
169.167-030	MANAGER, ELECTRONIC DATA	7	1	7.00	11.54
169.167-034	MANAGER, OFFICE	587	52	11.29	6.36
184.117-034	MANAGER, AUTOMOTIVE SERVI	32	3	10.67	6.72
184.167-094	MANAGER, TRAFFIC	6	0	--	N.A.
184.167-110	MANAGER, TRUCK TERMINAL	29	3	9.67	11.22
184.167-114	MANAGER, WAREHOUSE	47	4	11.75	6.37
185.167-018	MANAGER, DISTRIBUTION WAR	12	0	--	N.A.
189.117-026	PRESIDENT	5	0	--	N.A.
189.167-014	DIRECTOR, SERVICE	42	2	21.00	5.59
189.167-018	MANAGEMENT TRAINEE	2095	402	5.21	4.61
189.167-022	MANAGER, DEPARTMENT	243	19	12.79	5.52
189.167-030	PROGRAM MANAGER	14	3	4.67	7.96

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: REAL ESTATE SERVICES

CLUSTER CODE 0540

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
RIGHT-OF-WAY AGENTS	10240805	176	178	178	0	19	19							
APPRAISERS, REAL ESTATE	10243816	313	322	328	6	19	25							
REAL ESTATE BROKERS	30001402	150	154	157	3	9	12							
SALES AGENTS, SALES REPS	30001403	581	595	605	10	36	46							
TOTALS		1220	1249	1268	19	83	102							

SUPPLY:

NO SUPPLY REPORT

02/24/86
IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: REAL ESTATE SERVICES CLUSTER CODE 0540

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
250.157-010	SUPERINTENDENT, SALES	5	0	--	N.A.
250.357-014	LEASING AGENT, RESIDENCE	7	2	3.50	4.00
250.357-018	SALES AGENT, REAL ESTATE	51	11	4.64	3.35

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: BUSINESS & PERSONAL SERVICES

CLUSTER CODE 0580

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
APPRAISERS	10243807	23	25	26	1	1	2							
ALL OTHER MANAGERS	20061699*	3691	3741	3764	23	150	173							
CONTRIBUTION SOLICITORS	30001804	99	97	95	-2	5	3							
CRATING & MOVING ESTIMA	30001805	73	75	76	1	2	3							
ALL OTHER SALES WORKERS	30001899*	976	983	984	1	44	45							
COUNTER CLERKS	40061602	559	541	527	-14	28	14							
CUSTOMER SERV REPS.PRIN	40062216	78	83	82	-1	3	2							
TOTALS		5499	5545	5554	9	233	242							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
BUSINESS AND PERSONAL SERV	08.0201							31						31
MARKETING OF BUSINESS OR P	08.0203							4			18			22
BUSINESS & PERSONAL SVS. M	08.0299							16						16
CREDIT MARKETING	08.0403										2			2
CREDIT UNION MARKETING	08.0404										3			3
OFFICE PRODUCTS AND EQUIPM	08.0807										2			2
TOTALS								51			25			76

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IOWA OCCUPATIONAL INFORMATION NETWORK

ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: BUSINESS & PERSONAL SERVICES — CLUSTER CODE 0580

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
163.167-018	MANAGER, SALES	437	42	10.40	7.24
164.117-010	MANAGER, ADVERTISING	9	0	--	N.A.
164.167-010	ACCOUNT EXECUTIVE	5	1	5.00	7.21
168.167-054	MANAGER, CREDIT AND COLLE	29	4	7.25	4.68
169.167-030	MANAGER, ELECTRONIC DATA	7	1	7.00	11.54
169.167-034	MANAGER, OFFICE	587	52	11.29	6.36
187.117-014	DIRECTOR, COMMUNITY ORGAN	21	3	7.00	6.39
187.117-018	DIRECTOR, INSTITUTION	5	2	2.50	11.06
187.117-042	MANAGER, RECREATION ESTAB	16	1	16.00	9.62
187.137-010	RECREATION SUPERVISOR	105	31	3.39	6.28
187.137-014	SUPERVISOR, VOLUNTEER SER	5	3	1.67	8.44
187.167-014	BOOKMAKER	5	0	--	N.A.
187.167-018	BUSINESS REPRESENTATIVE,	5	0	--	N.A.
187.167-082	MANAGER, CUSTOMER SERVICE	5	0	--	N.A.
187.167-142	MANAGER, SERVICE DEPARTME	12	0	--	N.A.
189.117-026	PRESIDENT	5	0	--	N.A.
189.167-014	DIRECTOR, SERVICE	42	2	21.00	5.59
189.167-018	MANAGEMENT TRAINEE	2095	402	5.21	4.61
189.167-022	MANAGER, DEPARTMENT	243	19	12.79	5.52
189.167-030	PROGRAM MANAGER	14	3	4.67	7.96
251.357-010	SALES AGENT, BUSINESS SER	3	24	0.13	4.13
253.257-010	SALES REPRESENTATIVE, TEL	3	15	0.20	6.44
254.357-010	LEASING AGENT, OUTDOOR AD	0	10	0.00	N.A.
254.357-014	SALES REPRESENTATIVE, ADV	128	146	0.8	4.48
259.257-010	SALES REPRESENTATIVE, EDU	0	5	0.0	6.74
259.357-018	SALES REPRESENTATIVE, RAD	8	11	0.73	4.33
259.357-022	SALES REPRESENTATIVE, TEL	2	10	0.20	3.35
293.357-014	FUND RAISER 2	0	14	0.00	3.55
299.137-010	MANAGER, DEPARTMENT	170	31	5.48	4.06
299.357-014	TELEPHONE SOLICITOR	381	1199	0.32	3.46

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: FOOD STORE MARKETING

CLUSTER CODE 0610

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
BUYERS, RETAIL &/OR WHOL	10240804*	355	357	358	1	11	12							
MANAGERS, STORE	20061612*	2792	2814	2817	3	138	141							
SALES CLERKS	30001802*	656	662	663	1	34	35							
CASHIERS	40060800*	7464	7606	7638	32	190	222							
STOCK CLERKS, STOCKRM, WA	40065404*	1231	1240	1244	4	40	44							
STOCK CLERKS, SALES FLOO	80002003*	2229	2280	2289	9	119	128							
TOTALS		14727	14959	15009	50	532	582							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
SUPPLY:														
FOOD MARKETING, GENERAL	08.0601							337	19		2			358
CONVENIENCE STORE MARKETIN	08.0602										8			8
SPECIALTY FOODS MARKETING	08.0603										2			2
SUPERMARKET MARKETING	08.0604										3			3
WHOLESALE FOOD MARKETING	08.0605										1			1
TOTALS								337	19		16			372

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: FOOD STORE MARKETING CLUSTER CODE 0610

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
162.157-018	BUYER	72	4	18.00	8.94
185.167-046	MANAGER, RETAIL STORE	1749	173	10.11	4.48
211.462-010	CASHIER 2	2198	544	4.04	3.57
211.462-014	CASHIER-CHECKER	4636	1271	3.65	3.56
211.467-018	PARIMUTUEL-TICKET CASHIER	0	5	0.00	6.25
222.387-026	INVENTORY CLERK	220	124	1.77	4.53
222.387-058	STOCK CLERK	1047	428	2.45	3.62
290.477-018	SALES CLERK, FOOD	353	282	1.25	3.57
299.367-014	STOCK CLERK, SELF-SERVICE	606	282	2.15	3.81

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: INDUSTRIAL MARKETING

CLUSTER CODE 0630

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PURCHASING AGENTS &/OR	10240801*	1441	1459	1469	10	61	71							
SALES CLERKS	30001802*	856	864	865	1	45	46							
ALL OTHER SALES WORKERS	30001899*	7670	7722	7728	6	347	353							
TOTALS		9967	10045	10062	17	453	470							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
INDUSTRIAL SALES	08.0702							2	21		16			39
TOTALS								2	21		16			39

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: INDUSTRIAL MARKETING — CLUSTER CODE 0630

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
162.157-010	BROKER-AND-MARKET OPERATO	13	0	--	N.A.
164.167-010	ACCOUNT EXECUTIVE	5	1	5.00	7.21
262.157-010	PHARMACEUTICAL DETAILER	6	0	--	N.A.
262.357-010	SALES REPRESENTATIVE, CHE	40	10	4.00	6.09
269.357-014	SALES REPRESENTATIVE, PET	5	0	--	N.A.
270.357-038	SALESPERSON, STEREO EQUIP	10	5	2.00	3.48
271.357-010	SALES REPRESENTATIVE, ELE	15	6	2.50	6.95
272.357-010	SALES REPRESENTATIVE, ANI	160	54	2.96	5.63
272.357-014	SALES REPRESENTATIVE, FAR	253	26	9.73	4.48
274.357-018	SALES REPRESENTATIVE, BUI	96	41	2.34	8.19
274.357-038	SALES REPRESENTATIVE, IND	22	4	5.50	6.95
275.257-010	SALES REPRESENTATIVE, COM	10	20	0.50	8.28
276.257-010	SALES REPRESENTATIVE, DEN	10	1	10.00	9.42
279.157-010	MANUFACTURERS´ REPRESENTA	4	21	0.19	4.45
279.357-010	SALES EXHIBITOR	173	10	17.30	3.35
290.477-014	SALES CLERK	5942	2059	2.89	3.47
297.367-010	EXHIBIT-DISPLAY REPRESENT	1	10	0.10	4.00
299.677-010	SALES ATTENDANT	25	5	5.00	3.43

02/26/86
IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: WHOLESALE & RETAIL MARKETING

CLUSTER CODE 0650

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
BUYERS, RETAIL &/OR WHOL	10240804*	1714	1726	1731	5	55	60							
MANAGERS, MERCHANDISE	20020800	5257	5268	5293	25	105	130							
MANAGERS, STORE	20061612*	10503	10586	10598	12	519	531							
WHOLESALERS	20061615	3128	3120	3126	6	153	159							
ALL OTHER MANAGERS	20061699*	3229	3274	3293	19	131	150							
DEMONSTRATERS	30000601	59	61	62	1	3	4							
SALES CLERKS	30001802*	22221	22430	22464	34	1166	1200							
VENDORS	30001803	30	39	40	1	2	3							
SALES CLERK SUPERVISORS	30001806	749	752	751	-1	37	36							
ALL OTHER SALES WORKERS	30001899*	26217	26397	26415	18	1188	1206							
CASHIERS	40060800*	10741	10945	10991	46	274	320							
SERVICE REPRESENTATIVES	40066808	386	397	399	2	12	14							
MERCHAN DISPLAYERS & WI	50141000	185	187	186	-1	5	4							
TOTALS		84419	85182	85349	167	3650	3817							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
MARKETING MANAGEMENT	06.1401									8	11		4	23
MARKETING MANAGEMENT	06.1401C								17					17
SMALL BUSINESS MANAGEMENT	06.1801										1			1
FOOTWEAR MARKETING	08.0104										1			1
FARM AND GARDEN SUPPLIES M	08.0502							2			3			5
GENERAL MERCHANDISE	08.0700							267	198					465
AUCTIONEERING	08.0701									650				650
INTERNATIONAL MARKETING	08.0703C								9					9
PURCHASING	08.0704							2					2	4
RETAILING	08.0705							167			60		5	232
SALES	08.0706							42			57			99
WHOLESALING	08.0707							3	2		8		1	14
FURNITURE MARKETING	08.0805							1	4		2			7
WAREHOUSE SERVICES MARKETI	08.1106										4		1	5
TRANSPORTATION AND TRAVEL	08.1199							1						1
AGRICULTURE IMPLEMENTS AND	08.1202										1			1
RECREATIONAL VEHICLE AND A	08.1205										1			1
EQUIPMENT RENTAL	08.9901										2			2
HOME FURNISHING AIDE	20.0506										3			3
TOTALS								485	230	658	154		13	1540

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IOWA OCCUPATIONAL INFORMATION NETWORK

ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: WHOLESALE & RETAIL MARKETING CLUSTER CODE 0650

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
162.157-018	BUYER	72	4	18.00	8.94
163.167-018	MANAGER, SALES	437	42	10.40	7.24
164.117-010	MANAGER, ADVERTISING	9	0	--	N.A.
164.167-010	ACCOUNT EXECUTIVE	5	1	5.00	7.21
168.167-054	MANAGER, CREDIT AND COLLE	29	4	7.25	4.68
169.167-030	MANAGER, ELECTRONIC DATA	7	1	7.00	11.54
169.167-034	MANAGER, OFFICE	587	52	11.29	6.36
185.167-010	COMMISSARY MANAGER	42	5	8.40	4.37
185.167-014	MANAGER, AUTOMOBILE SERVI	195	15	13.00	4.13
185.167-018	MANAGER, DISTRIBUTION WAR	12	0	--	N.A.
185.167-030	MANAGER, MEAT SALES AND S	12	0	--	N.A.
185.167-034	MANAGER, MERCHANDISE	23	1	23.00	6.01
185.167-046	MANAGER, RETAIL STORE	1749	173	10.11	4.48
189.117-026	PRESIDENT	5	0	--	N.A.
189.167-014	DIRECTOR, SERVICE	42	2	21.00	5.59
189.167-018	MANAGEMENT TRAINEE	2095	402	5.21	4.61
189.167-022	MANAGER, DEPARTMENT	243	19	12.79	5.52
189.167-030	PROGRAM MANAGER	14	3	4.67	7.96
211.362-010	CASHIER 1	1547	271	5.71	3.55
211.462-010	CASHIER 2	2198	544	4.04	3.57
211.462-014	CASHIER-CHECKER	4636	1271	3.65	3.56
211.462-018	CASHIER-WRAPPER	14	5	2.80	3.75
211.462-030	DRIVERS´-CASH CLERK	11	0	--	N.A.
211.467-018	PARIMUTUEL-TICKET CASHIER	0	5	0.00	6.25
239.367-010	CUSTOMER-SERVICE REPRESEN	33	5	6.60	4.54
260.357-014	SALES REPRESENTATIVE, FOO	130	49	2.65	6.47
260.357-026	SALESPERSON, FLOWERS	3	7	0.43	3.44
261.357-022	SALES REPRESENTATIVE, MEN	3	11	0.27	3.55
261.357-038	SALES REPRESENTATIVE, WOM	0	6	0.00	4.12
261.357-050	SALESPERSON, MEN´S AND BO	31	17	1.82	3.36
261.357-054	SALESPERSON, MEN´S FURNIS	14	2	7.00	3.35
261.357-062	SALESPERSON, SHOES	79	118	0.67	3.45
261.357-066	SALESPERSON, WOMEN´S APPA	190	147	1.29	3.38
262.357-018	SALESPERSON, COSMETICS AN	25	9	2.78	3.90
270.357-010	SALES REPRESENTATIVE, HOM	10	9	1.11	3.45
270.357-018	SALESPERSON, CHINA AND SI	0	5	0.00	3.35
270.357-026	SALESPERSON, FLOOR COVERI	5	1	5.00	5.65
270.357-030	SALESPERSON, FURNITURE	57	61	0.93	4.04
270.357-034	SALESPERSON, HOUSEHOLD AP	10	16	0.63	3.89
272.357-022	SALESPERSON, HORTICULTURA	5	0	--	N.A.
273.353-010	SALESPERSON, AUTOMOBILES	211	21	10.05	3.93
273.357-022	SALES REPRESENTATIVE, MOT	57	19	3.00	4.61
273.357-030	SALESPERSON, AUTOMOBILE A	20	17	1.18	4.38
273.357-034	SALESPERSON, TRAILERS AND	2	7	0.29	4.15
274.357-034	SALES REPRESENTATIVE, HAR	2	6	0.33	4.56

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE ..(Continued) IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: WHOLESALE & RETAIL MARKETING CLUSTER CODE 0650

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
275.357-018	SALES REPRESENTATIVE, COM	5	15	0.33	5.40
275.357-034	SALES REPRESENTATIVE, OFF	30	17	1.76	5.04
275.357-042	SALES REPRESENTATIVE, SCH	0	5	0.00	5.28
277.357-026	SALES REPRESENTATIVE, REC	0	9	0.00	3.47
277.357-058	SALESPERSON, SPORTING GOO	8	2	4.00	3.42
279.357-014	SALES REPRESENTATIVE, GEN	2248	629	3.57	4.56
279.357-018	SALES REPRESENTATIVE, JEW	9	9	1.00	3.35
279.357-042	SALESPERSON, BURIAL NEEDS	0	11	0.00	4.07
279.357-050	SALESPERSON, GENERAL HARD	151	72	2.10	3.96
279.357-054	SALESPERSON, GENERAL MERC	2422	780	3.11	3.62
279.357-058	SALESPERSON, JEWELRY	44	48	0.92	3.55
279.357-062	SALESPERSON, PARTS	229	59	3.88	4.48
290.477-010	COUPON-REDEMPTION CLERK	571	152	3.76	3.48
290.477-014	SALES CLERK	5942	2059	2.89	3.47
291.357-010	SALES REPRESENTATIVE, DOO	33	85	0.39	3.64
291.457-022	VENDOR	0	7	0.00	3.37
292.457-010	NEWSPAPER CARRIER	48	50	0.96	4.69
295.357-014	TOOL-AND-EQUIPMENT-RENTAL	5	7	0.71	3.56
296.367-014	COMPARISON SHOPPER	0	6	0.00	3.35
297.354-010	DEMONSTRATOR	6	67	0.09	4.56
298.081-010	DISPLAYER, MERCHANDISE	27	5	5.40	3.37
299.137-010	MANAGER, DEPARTMENT	170	31	5.48	4.06
299.357-010	LINEN CONTROLLER	20	8	2.50	3.48
299.357-014	TELEPHONE SOLICITOR	381	1199	0.32	3.46
299.367-010	CUSTOMER-SERVICE CLERK	57	21	2.71	4.14
299.647-010	IMPERSONATOR, CHARACTER	0	7	0.00	3.99
299.677-010	SALES ATTENDANT	25	5	5.00	3.43

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                                                 02/26/86
                                      IOWA  OCCUPATIONAL  INFORMATION  NETWORK
                                      S U P P L Y - D E M A N D   R E P O R T
STATEWIDE
CLUSTER TITLE:  BUILDING MATERIALS MARKETING
                                                                                    CLUSTER CODE 0670
--------------------------------------------------------------------------------------------------------
   - OCCUPATION/PROGRAM -  CODE    1985  1987  1988  (ESTIMATED '87-'88) PUBLIC  PUBLIC  PRIVATE  JTPA/  APPRE- MILIT-   TOTAL
     T I T L E                     EMPL  EMPL  EMPL  GROWTH REPLAC OPEN  SECOND  P. SEC  P. SEC   OJT    TICE   ARY
--------------------------------------------------------------------------------------------------------

       DEMAND DATA:
SALES CLERKS           30001802*   228   230   231     1     12     13
                          -----------------------------------------
TOTALS                             228   230   231     1     12     13


  * indicates occupation code occurs in other clusters.

       SUPPLY:
BUILDING MATERIALS MARKETI  08.0803                                    15      5              2                      22
HARDWARE MARKETING          08.0806                                    14                                            14

                                                                ------------------------------------------------------
TOTALS                                                                 29      5              2                      36
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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: BUILDING MATERIALS MARKETING CLUSTER CODE 0670

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
290.477-014	SALES CLERK	5942	2059	2.89	3.47
299.677-010	SALES ATTENDANT	25	5	5.00	3.43

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: FLORISTRY

CLUSTER CODE 0680

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DESIGNERS	10221001*	702	711	713	2	18	20							
TOTALS		702	711	713	2	18	20							
SUPPLY:														
FLORICULTURE	01.0603							15	42		2			59
FLORISTRY	08.0503							6			4			10
FLORAL DESIGN	20.0504										4			4
TOTALS								21	42		10			73

* indicates occupation code occurs in other clusters.

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: FLORISTRY CLUSTER CODE 0680

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
142.081-010	FLORAL DESIGNER	111	36	3.08	3.83

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: FASHION MERCHANDISING

CLUSTER CODE 0690

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
BUYERS,RETAIL &/OR WHOL	10240804*	289	291	292	1	9	10							
SALES CLERKS	30001802*	4564	4607	4614	7	240	247							
TOTALS		4853	4898	4906	8	249	257							
SUPPLY:														
FASHION MERCHANDISE	08.0102							146	41	68	5			260
FASHION MODELING	08.0103							3		125				128
TOTALS								149	41	193	5			388

* indicates occupation code occurs in other clusters.

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: FASHION MERCHANDISING CLUSTER CODE 0690

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
162.157-018	BUYER	72	4	18.00	8.94
261.357-062	SALESPERSON, SHOES	79	118	0.67	3.45
261.357-066	SALESPERSON, WOMEN'S APPA	190	147	1.29	3.38
279.357-054	SALESPERSON, GENERAL MERC	2422	780	3.11	3.62
290.477-014	SALES CLERK	5942	2059	2.89	3.47
299.677-010	SALES ATTENDANT	25	5	5.00	3.43

02/26/86
IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: COMMERCIAL PHOTOGRAPHY

CLUSTER CODE 0700

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PHOTOGRAPHERS	10221805	344	350	346	-4	11	7							
OTHER PHOTO PROCESS WOR	61084400	491	530	536	6	7	13							
TOTALS		835	880	882	2	18	20							
SUPPLY:														
JOURNALISM	09.0401										2		5	7
JOURNALISM	09.0401C								6					6
COMMERCIAL PHOTOGRAPHY	48.0204							2	45				5	52
PHOTOGRAPHIC LABORATION AN	48.0207							1			8		2	11
TOTALS								3	51		10		12	76

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: COMMERCIAL PHOTOGRAPHY CLUSTER CODE 0700

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
143.062-030	PHOTOGRAPHER, STILL	51	9	5.67	4.02
143.062-034	PHOTOJOURNALIST	5	0	--	N.A.
143.457-010	PHOTOGRAPHER	30	7	4.29	4.46
976.361-010	REPRODUCTION TECHNICIAN	0	10	0.00	3.50
976.381-014	MICROFICHE DUPLICATOR	5	0	--	N.A.
976.681-010	DEVELOPER	8	5	1.60	3.44
976.684-026	SPLICER	0	5	0.00	3.63

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: INSURANCE MARKETING

CLUSTER CODE 0720

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
HOSPITAL INS REPRESENTA	10243803	3	3	3	0	0	0							
SAFETY INSPECTORS	10243804	123	131	136	5	7	12							
UNDERWRITERS	10243814	1015	1084	1122	38	31	69							
INVESTIGATORS, INSURANCE	10243815	54	57	58	1	1	2							
SPECIAL AGENTS, INSURANC	10243820	849	903	931	28	21	49							
CLAIM EXAMINERS, PRPTY/C	10243822	329	357	372	15	18	33							
BLDG INSPECTORS, FIRE IN	10243823	13	14	15	1	1	2							
PLACERS	30001004	8	8	8	0	0	0							
SALES AGENTS, SALES REPS	30001005	2537	2651	2709	58	125	183							
CLAIM EXAMINERS, INSURAN	40062801	554	597	622	25	16	41							
CLAIM ADJUSTERS	40062803	892	949	980	31	25	56							
TOTALS		6377	6754	6956	202	245	447							
SUPPLY:														
INSURANCE MARKETING, GENER	08.1001							2						2
ACCIDENT AND HEALTH INSURA	08.1002										2			2
LIFE INSURANCE MARKETING	08.1003										1			1
PROPERTY AND CASUALTY INSU	08.1004										2			2
TOTALS								2			5			7

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: INSURANCE MARKETING
CLUSTER CODE 0720

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
168.167-078	SAFETY INSPECTOR	5	0	--	N.A.
168.267-014	CLAIM EXAMINER	10	24	0.42	10.18
169.167-058	UNDERWRITER	52	1	52.00	10.36
241.217-010	CLAIM ADJUSTER	44	8	5.50	8.29
241.267-018	CLAIM EXAMINER	21	13	1.62	5.11
250.257-010	SALES AGENT, INSURANCE	238	242	0.98	5.67

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: AUTOMOTIVE MARKETING

CLUSTER CODE 0760

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MANAGERS,AUTO SERVICE D	20061613	1013	979	968	-11	30	19							
MANAGERS,AUTO PARTS DEP	20061614	686	668	660	-8	33	25							
TOTALS		1699	1647	1628	-19	63	44							
SUPPLY:														
AUTOMOTIVE VEHICLES AND AC	08.1203							14	27		16		14	71
TOTALS								14	27		16		14	71

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: AUTOMOTIVE MARKETING CLUSTER CODE 0760

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
185.167-038	MANAGER, PARTS	129	4	32.25	5.76
185.167-058	SERVICE MANAGER	101	5	20.20	6.05

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: SERVICE STATION RETAILING

CLUSTER CODE 0770

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MARINE SERVICE STAT ATT	61082603	2	2	2	0	0	0							
FUEL PUMP ATTENDANTS,LU	61082605	4405	4269	4224	-45	124	79							
TIRE CHANGERS	61082606	878	857	850	-7	25	18							
TIRE FABRICATORS,REPAIR	61088614	254	246	243	-3	5	2							
TOTALS		5539	5374	5319	-55	154	99							
SUPPLY:														
PERTOLEUM WHOLESALING	08.1204							13	2					15
SERVICE STATION RETAILING	08.1206							20			13			33
TOTALS								33	2		13			48

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IOWA OCCUPATIONAL INFORMATION NETWORK

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: SERVICE STATION RETAILING CLUSTER CODE 0770

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
915.467-010	AUTOMOBILE-SERVICE-STATIO	762	159	4.79	3.48
915.477-010	AUTOMOBILE-SELF-SERVE-SER	191	113	1.69	3.43
915.684-010	TIRE REPAIRER	151	73	2.07	4.01
915.687-018	LUBRICATION SERVICER	10	5	2.00	3.41

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: VEHICLE RENTAL & LEASING

CLUSTER CODE 0780

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CAR RENTAL CLERKS	40061601	83	80	79	-1	4	3							
TRAILER RENTAL ATTENDAN	61082604	20	20	19	-1	1	0							
RENTAL CAR DELIVERY WOR	62002006	25	24	24	0	2	2							
TOTALS		128	124	122	-2	7	5							
SUPPLY:														
VEHICLE RENTAL AND LEASING	08.1207							8						8
TOTALS								8						8

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE
CLUSTER TITLE: VEHICLE RENTAL & LEASING

IOWA DEPT. OF JOB SERVICE
CLUSTER CODE 0780

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
295.477-010	AUTOMOBILE-RENTAL CLERK	0	6	0.00	3.66

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: ADVERTISING SERVICES

CLUSTER CODE 0730

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MEDIA ANALYSTS	10180204	15	17	18	1	0	1							
MEDIA BUYERS	10240803	28	31	32	1	1	2							
CLASSIFIED AD CLERKS,NE	40061606	71	72	71	-1	1	0							
MEDIA CLERKS/ESTIMATORS	40066809	8	9	9	0	0	0							
TOTALS		122	129	130	1	2	3							
SUPPLY:														
ADVERTISING	09.0201							7			5			12
TOTALS								7			5			12

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: ADVERTISING SERVICES CLUSTER CODE 0790

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
162.157-038	PURCHASING AGENT	212	26	8.15	7.72

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                                                        02/26/86
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                                            S U P P L Y - D E M A N D   R E P O R T
STATEWIDE
CLUSTER TITLE:  DENTAL ASSISTING
                                                                                                        CLUSTER CODE 0800
-------------------------------------------------------------------------------------------------------------------------
   - OCCUPATION/PROGRAM -   CODE     1985  1987  1988  (ESTIMATED '87-'88) PUBLIC  PUBLIC  PRIVATE  JTPA/  APPRE- MILIT-  TOTAL
     T I T L E                       EMPL  EMPL  EMPL  GROWTH REPLAC OPEN  SECOND  P. SEC  P. SEC   OJT    TICE   ARY
-------------------------------------------------------------------------------------------------------------------------

          DEMAND DATA:
DENTAL ASSISTANTS       10120401     1994  1994  1995     1     38     39
                                ---------------------------------------------
TOTALS                               1994  1994  1995     1     38     39




          SUPPLY:
DENTAL ASSISTING            17.0101                                          5     129              5             3     142

                                                                       ---------------------------------------------------
TOTALS                                                                       5     129              5             3     142
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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: DENTAL ASSISTING
CLUSTER CODE 0800

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
079.371-010	DENTAL ASSISTANT	287	90	3.19	4.55

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: DENTAL HYGIENE

CLUSTER CODE 0810

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
DENTAL HYGIENISTS	10120402	611	611	611	0	2	2							
TOTALS		611	611	611	0	2	2							
SUPPLY:														
DENTAL HYGIENE	17.0102								24					24
TOTALS									24					24

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: DENTAL HYGIENE CLUSTER CODE 0810

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
078.361-010	DENTAL HYGIENIST	13	6	2.17	6.44

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: DENTAL LABORATORY TECHNOLOGY

CLUSTER CODE 0820

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DENTAL LAB TECHNICIANS	50141200	466	466	466	0	6	6							
TOTALS		466	466	466	0	6	6							
SUPPLY:														
DENTAL LABORATORY TECHNOLO	17.0103								13		1			14
TOTALS									13		1			14

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: DENTAL LABORATORY TECHNOLOGY — CLUSTER CODE 0820

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
712.381-018	DENTAL-LABORATORY TECHNIC	40	11	3.64	5.46

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: ELECTROCARDIOGRAPH TECH

CLUSTER CODE 0840

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
EKG TECHNICIANS	10121006	188	189	190	1	3	4							
TOTALS		188	189	190	1	3	4							
SUPPLY:														
ELECTROCARDIOGRAPH TECHNOL	17.0203								6					6
TOTALS									6					6

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: ELECTROCARDIOGRAPH TECH CLUSTER CODE 0840

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
078.362-018	ELECTROCARDIOGRAPH TECHNI	5	5	1.00	5.65

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: ELECTROENCEPHALOGRAPH TECH

CLUSTER CODE 0850

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
EEG TECHNICIANS	10121007	55	55	55	0	1	1							
TOTALS		55	55	55	0	1	1							
SUPPLY:														
ELECTROENCEPHALOGRAPH TECH	17.0204												2	2
TOTALS													2	2

NO ANALYSIS

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STATEWIDE
CLUSTER TITLE: EMERGENCY MEDICAL TECHNOLOGY

CLUSTER CODE 0860

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
EMERGENCY MEDICAL TECHN	10121008	422	436	444	8	8	16							
AMBULANCE DRIVERS/AMB A	62002001	992	1019	1034	15	36	51							
TOTALS		1414	1455	1478	23	44	67							
SUPPLY:														
EMERGENCY MEDICAL TECHNOLO	17.0205								54					54
EMERGENCY MEDICAL TECH -PA	17.0206												30	30
TOTALS									54				30	84

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: EMERGENCY MEDICAL TECHNOLOGY CLUSTER CODE 0860

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
079.374-010	EMERGENCY MEDICAL TECHNIC	197	22	8.95	5.55

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STATEWIDE
CLUSTER TITLE: RADIOGRAPHIC MEDICAL TECH

CLUSTER CODE 0880

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
X-RAY TECHNICIANS	10120801	895	894	896	2	10	12							
RADIOLOGIC TECHS & NUC	10120804	262	263	263	0	3	3							
TOTALS		1157	1157	1159	2	13	15							
SUPPLY:														
MEDICAL RADIATION DOSIMETR	17.0207												1	1
RADIOGRAPH MEDICAL TECHNOL	17.0209							2	18	57			2	79
TOTALS								2	18	57			3	80

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: RADIOGRAPHIC MEDICAL TECH CLUSTER CODE 0880

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
078.361-018	NUCLEAR MEDICAL TECHNOLOG	0	5	0.00	10.60
078.362-026	RADIOLOGIC TECHNOLOGIST	44	9	4.89	6.65

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STATEWIDE
CLUSTER TITLE: RESPIRATORY THERAPY TECH

CLUSTER CODE 0830

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
INHALATION THERAPISTS	10101809	320	320	321	1	5	6							
TOTALS		320	320	321	1	5	6							
SUPPLY:														
RESPIRATORY THERAPY TECHNO	17.0210								23					23
RESPIRATORY THERAPY	17.0818								35		1			36
TOTALS									58		1			59

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            IOWA OCCUPATIONAL INFORMATION NETWORK
              A N A L Y S I S   I N F O R M A T I O N
STATEWIDE                                          IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: RESPIRATORY THERAPY TECH                  CLUSTER CODE 0890
-------------------------------------------------------------------------------
CODE                TITLE               TOTAL J.S.  TOTAL J.S.  RATIO J.S.  AVG.
                                        APPLICANTS  OPENINGS    APPS/OPEN  HRWAGE
-------------------------------------------------------------------------------
079.361-010 RESPIRATORY THERAPIST           40          5          8.00     6.50
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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: SURGICAL TECHNOLOGY

CLUSTER CODE 0900

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SURGICAL TECHNICIANS	10121002	508	508	509	1	9	10							
TOTALS		508	508	509	1	9	10							
SUPPLY:														
SURGICAL TECHNOLOGY	17.0211								29				2	31
TOTALS									29				2	31

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: SURGICAL TECHNOLOGY CLUSTER CODE 0900

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
079.374-022	SURGICAL TECHNICIAN	27	3	9.00	5.35

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MEDICAL LABORATORY TECH

CLUSTER CODE 0910

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MEDICAL LAB TECHNOLOGIS	10120201	1173	1174	1179	5	13	18							
BIOCHEMISTRY TECHNOLOGI	10120202	65	65	65	0	1	1							
MICROBIOLOGY TECHNOLOGI	10120203	52	52	52	0	1	1							
CYTOTECHNOLOGISTS	10120204	50	50	50	0	1	1							
HISTOLOGIC TECHNOLOGIST	10120205	68	68	68	0	1	1							
MEDICAL LAB ASSISTANTS	10120206	872	871	873	2	16	18							
BLOOD BANK TECH SPECILA	10120207	146	146	146	0	5	5							
ALL OTHER MED & DENT TE	10121099	593	591	593	2	11	13							
TOTALS		3019	3017	3026	9	49	58							
SUPPLY:														
CLINICAL LABORATORY ASSIST	17.0305							6						6
MEDICAL LABORATORY TECHNOL	17.0309								36				4	40
MEDICAL TECHNOLOGY	17.0310									37				37
MEDICAL LABORATORY TECHNOL	17.0399								6					6
TOTALS								6	42	37			4	89

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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MEDICAL LABORATORY TECH
CLUSTER CODE 0910

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
078.361-014	MEDICAL TECHNOLOGIST	42	1	42.00	9.00
078.381-014	MEDICAL-LABORATORY TECHNI	85	31	2.74	4.55
078.687-010	LABORATORY ASSISTANT, BLO	6	0	--	N.A.
079.364-014	OPTOMETRIC ASSISTANT	7	1	7.00	5.83

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: HEALTH & HUMAN SERVICES

CLUSTER CODE 0360

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PSYCHIATRIC AIDES	70061011	1004	1003	1006	3	43	46							
SOCIAL SERVICE AIDES	70083000	957	955	973	18	24	42							
TOTALS		1961	1958	1979	21	67	88							
SUPPLY:														
ALCOHOL/DRUG ABUSE SPECIAL	17.0401									14	3		1	18
HOME HEALTH AIDE	17.0404										8			8
MENTAL HEALTH/HUMAN SERVIC	17.0405							3			16		4	23
MENTAL HEALTH/HUMAN SERVIC	17.0406							1						1
REHABILITATION COUNSELING	17.0407										2			2
TRAINING INTERPRETER (DEAF	17.0499							8	13					21
GERIATRIC AIDE	17.0601										3			3
FOSTER CARE/FAMILY CARE	20.0204										2			2
COMPANION TO THE AGED	20.0602										2			2
HOMEMAKER'S AIDE	20.0606							12	1091		4			1107
COMMUNITY SERVICES	44.0201C								39					39
TOTALS								24	1143	14	40		5	1226

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: HEALTH & HUMAN SERVICES CLUSTER CODE 0960

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
195.367-010	CASE AIDE	71	31	2.29	4.45
309.354-010	HOMEMAKER	12	1	12.00	3.67
355.377-014	PSYCHIATRIC AIDE	78	107	0.73	5.61

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MEDICAL ASSISTING

CLUSTER CODE 0980

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
MEDICAL ASSISTANTS	70061013	1279	1278	1280	2	45	47							
TOTALS		1279	1278	1280	2	45	47							
SUPPLY:														
MEDICAL ASSISTING	17.0503							1	145	67	2		16	231
TOTALS								1	145	67	2		16	231

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STATEWIDE
CLUSTER TITLE: MEDICAL ASSISTING

IOWA DEPT. OF JOB SERVICE
CLUSTER CODE 0980

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
079.364-010	CHIROPRACTOR ASSISTANT	10	1	10.00	3.80
079.367-010	MEDICAL ASSISTANT	286	51	5.61	4.54

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STATEWIDE
CLUSTER TITLE: MEDICAL RECORDS

CLUSTER CODE 1010

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MEDICAL RECORD LIBRARIA	10120600	272	271	272	1	1	2							
TOTALS		272	271	272	1	1	2							
SUPPLY:														
MEDICAL RECORDS TECHNOLOGY	17.0506							2	24		1		5	32
TOTALS								2	24		1		5	32

NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PHARMACY ASSISTING

CLUSTER CODE 1020

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PHARMACY HELPERS	10121009	364	366	367	1	13	14							
TOTALS		364	366	367	1	13	14							
SUPPLY:														
PHARMACY ASSISTING	17.0507							3			2		5	10
TOTALS								3			2		5	10

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: PHARMACY ASSISTING CLUSTER CODE 1020

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
074.387-010	PHARMACY HELPER	43	15	2.87	4.44

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: NURSING ASSISTING

CLUSTER CODE 1040

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
NURSES AIDES/ORDERLIES	70061010	23178	23208	23281	73	998	1071							
TOTALS		23178	23208	23281	73	998	1071							
SUPPLY:														
NURSING ASSISTING	17.0602							115	1081		5			1202
NURSING ASSISTING	17.0602J											33		33
PEDIATRIC AIDE	17.0604										43			43
TOTALS								115	1081		48	33		1278

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: NURSING ASSISTING CLUSTER CODE 1040

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
354.374-010	NURSE, PRACTICAL	32	19	1.68	5.38
354.377-010	BIRTH ATTENDANT	0	6	0.00	3.64
355.674-014	NURSE AIDE	4130	1041	3.97	3.68
355.674-018	ORDERLY	176	33	5.33	4.06

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STATEWIDE
CLUSTER TITLE: LICENSED PRACTICAL NURSING

CLUSTER CODE 1050

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
LICENSED PRACTICAL NURS	10121010	8029	8049	8074	25	185	210							
TOTALS		8029	8049	8074	25	185	210							
SUPPLY:														
PRACTICAL NURSING	17.0605							4	583		5		2	594
TOTALS								4	583		5		2	594

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: LICENSED PRACTICAL NURSING CLUSTER CODE 1050

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
079.374-014	NURSE, LICENSED PRACTICAL	1042	195	5.34	5.49

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: OPTOMETRIC ASSISTING

CLUSTER CODE 1060

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE-TICE	MILIT-ARY	TOTAL
DEMAND DATA:														
ORTHOPISTS	10121004	3	3	3	0	0	0							
LENS GRINDERS	50143001	55	55	54	-1	1	0							
OPTICIANS,DISP &/OR OPT	50143002	510	511	512	1	12	13							
TOTALS		568	569	569	0	13	13							
SUPPLY:														
OPTICAL TECHNOLOGY	15.0606												1	1
OPHTHALMIC TECHNOLOGY	17.0701										1			1
OPTOMETRIC ASSISTING	17.0704										1			1
OPTOMETRIC TECHNOLOGY	17.0705										1			1
TOTALS											3		1	4

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: OPTOMETRIC ASSISTING CLUSTER CODE 1060

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
299.474-010	OPTICIAN, DISPENSING 2	6	1	6.00	4.00
716.280-014	OPTICIAN	10	0	--	N.A.
716.382-018	PRECISION-LENS GRINDER	5	0	--	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: REHABILITATION THERAPY

CLUSTER CODE 1080

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	 OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MANUAL ARTS, MUSIC, REC T	10101802	241	241	243	2	2	4							
CORRECTIVE THERAPISTS	10101808	12	12	12	0	0	0							
ALL OTHER THERAPISTS	10101810	160	161	161	0	1	1							
TOTALS		413	414	416	2	3	5							
SUPPLY:														
RECREATIONAL THERAPY	17.0816										1			1
REHABILITATION SERVICES, O	17.0899C								14					14
THERAPEUTIC RECREATION AID	20.0607										5			5
TOTALS									14		6			20

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IOWA OCCUPATIONAL INFORMATION NETWORK

ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: REHABILITATION THERAPY — CLUSTER CODE 1080

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
076.124-014	RECREATIONAL THERAPIST	27	5	5.40	6.06

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: OCCUPATIONAL THERAPY

CLUSTER CODE 1110

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN)	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
OCCUPATIONAL THERAPISTS	10101801	276	277	280	3	1	4							
OCCUPATIONAL THERAPY AI	70060400	152	152	154	2	5	7							
TOTALS		428	429	434	5	6	11							
SUPPLY:														
OCCUPATIONAL THERAPY ASSIS	17.0808								17					17
TOTALS									17					17

NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: ORTHOPEDIC ASSISTING

CLUSTER CODE 1130

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PROSTHETISTS, ORTHOTISTS	10121005	30	30	31	1	1	2							
ORTHOPEDIC CAST SPECIAL	70061012	10	10	10	0	0	0							
TOTALS		40	40	41	1	1	2							
SUPPLY:														
ORTHOTIC/PROSETHETIC ASSIS	17.0810												1	1
TOTALS													1	1

NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: PHYSICAL THERAPY

CLUSTER CODE 1150

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE-TICE	MILIT-ARY	TOTAL
DEMAND DATA:														
PHYSICAL THERAPISTS	10101804	450	451	452	1	9	10							
PHYSICAL THERAPY TECHNI	10121012	606	606	607	1	21	22							
TOTALS		1056	1057	1059	2	30	32							
SUPPLY:														
PHYSICAL THERAPY	17.0813							1						1
TOTALS								1						1

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ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: PHYSICAL THERAPY CLUSTER CODE 1150

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
355.354-010	PHYSICAL THERAPY AIDE	5	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: AUDIOLOGY & SPEECH PATHOLOGY

CLUSTER CODE 1170

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SPEECH & HEARING CLINIC	10101803	641	652	659	7	4	11							
AUDIOMETRISTS	10101807	18	18	18	0	0	0							
TOTALS		659	670	677	7	4	11							

SUPPLY:

NO SUPPLY REPORT

NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: NURSING

CLUSTER CODE 1180

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
NURSES, PROFESSIONAL	10100800	18300	18321	18393	72	440	512							
TOTALS		18300	18321	18393	72	440	512							
SUPPLY:														
NURSING, ASSOCIATE DEGREE	18.1101								801	321	3		5	1130
TOTALS									801	321	3		5	1130

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: NURSING CLUSTER CODE 1180

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
075.124-014	NURSE, STAFF, COMMUNITY H	7	1	7.00	8.00
075.127-018	NURSE, HEAD	5	0	--	N.A.
075.264-010	NURSE PRACTITIONER	5	0	--	N.A.
075.374-010	NURSE, GENERAL DUTY	994	252	3.94	6.79
075.374-014	NURSE, OFFICE	26	8	3.25	6.56

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: HEALTH SCIENCES ADMIN

CLUSTER CODE 1190

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ALL OTHER MANAGERS	20061699*	1252	1269	1277	8	51	59							
TOTALS		1252	1269	1277	8	51	59							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
HEALTH CARE ADMINISTRATION	18.0701C								31					31
HEALTH SCIENCES ADMINISTRA	18.0799									7				7
TOTALS									31	7				38

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: HEALTH SCIENCES ADMIN CLUSTER CODE 1190

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
187.117-010	ADMINISTRATOR, HOSPITAL	11	1	11.00	9.75
187.117-014	DIRECTOR, COMMUNITY ORGAN	21	3	7.00	6.39
187.117-018	DIRECTOR, INSTITUTION	5	2	2.50	11.06
187.137-010	RECREATION SUPERVISOR	105	31	3.39	6.28
187.137-014	SUPERVISOR, VOLUNTEER SER	5	3	1.67	8.44
189.117-026	PRESIDENT	5	0	--	N.A.
189.167-018	MANAGEMENT TRAINEE	2095	402	5.21	4.61
189.167-022	MANAGER, DEPARTMENT	243	19	12.79	5.52
189.167-030	PROGRAM MANAGER	14	3	4.67	7.96
195.117-010	ADMINISTRATOR, SOCIAL WEL	12	3	4.00	8.49

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: CHILD CARE MANAGEMENT

CLUSTER CODE 1200

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ALL OTHER MANAGERS	20061699*	1516	1537	1546	9	61	70							
TOTALS		1516	1537	1546	9	61	70							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
THERAPEUTIC CHILD CARE WOR	17.0408										2			2
CHILD CARE AND GUIDANCE MA	20.0201J											2		2
CHILD CARE MANAGEMENT-HAND	20.0203							3	95		5			105
CHILD CARE MANAGEMENT-HAND	20.0203C								52					52
TOTALS								3	147		7	2		161

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: CHILD CARE MANAGEMENT CLUSTER CODE 1200

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
092.137-010	DIRECTOR, PRESCHOOL	12	8	1.50	5.80
187.117-014	DIRECTOR, COMMUNITY ORGAN	21	3	7.00	6.39
187.117-018	DIRECTOR, INSTITUTION	5	2	2.50	11.06
187.117-042	MANAGER, RECREATION ESTAB	16	1	16.00	9.62
187.137-010	RECREATION SUPERVISOR	105	31	3.39	6.28
187.137-014	SUPERVISOR, VOLUNTEER SER	5	3	1.67	8.44
189.117-026	PRESIDENT	5	0	--	N.A.
189.167-018	MANAGEMENT TRAINEE	2095	402	5.21	4.61
189.167-022	MANAGER, DEPARTMENT	243	19	12.79	5.52
189.167-030	PROGRAM MANAGER	14	3	4.67	7.96
195.117-010	ADMINISTRATOR, SOCIAL WEL	12	3	4.00	8.49

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: CHILD CARE ASSISTING

CLUSTER CODE 1210

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
GROUP RECREATION WORKER	10243201*	339	333	331	-2	15	13							
CHILD CARE ATTENDANTS	70081601	205	207	211	4	6	10							
CHILD CARE WORKERS	70081602	3105	3082	3153	71	86	157							
TOTALS		3649	3622	3695	73	107	180							

* indicates occupation code occurs in other clusters.

SUPPLY:	CODE	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
CHILD CARE AIDE/ASSISTING	20.0202	127	68		8			203
CHILD CARE AIDE/ASSISTING	20.0202C		12					12
TEACHER AIDE	20.0205	9			21			30
VOCATIONAL HOME ECONOMICS,	20.9999	43						43
TOTALS		179	80		29			288

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: CHILD CARE ASSISTING CLUSTER CODE 1210

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
159.124-010	COUNSELOR, CAMP	5	16	0.31	3.85
195.227-010	PROGRAM AIDE, GROUP WORK	72	42	1.71	4.30
195.227-014	RECREATION LEADER	84	15	5.60	4.30
301.677-010	CHILD MONITOR	2229	685	3.25	4.07
355.674-010	CHILD-CARE ATTENDANT, SCH	428	240	1.78	3.59
359.677-010	ATTENDANT, CHILDREN´S INS	145	77	1.88	5.31
359.677-018	NURSERY SCHOOL ATTENDANT	408	82	4.98	3.60

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: CLOTHIHG & APPAREL

CLUSTER CODE 1220

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
FURRIERS	10221003	3	3	3	0	0	0							
SAMPLE MAKERS	50144405	3	3	3	0	0	0							
FOLDERS, HAND	61041028	28	25	25	0	1	1							
BUNDLERS	61060003	33	32	32	0	1	1							
PATTERN CUTTERS	61081431	1	1	1	0	0	0							
SEWING MACH OPS, REG EQM	61085205	705	714	713	-1	38	37							
GARMENT REPAIRERS	61085212	22	21	21	0	1	1							
SEWING MACH OPS, SPEC EQ	61085215	192	191	192	1	10	11							
SEWING MACH OPS, SPEC EQ	61085219	197	186	186	0	10	10							
SEWING MACH OPS, REG EQM	61085220	2001	1914	1914	0	101	101							
STITCHERS, STANDARD MACH	61085431	3	3	3	0	0	0							
FUSING MACHINE OPERATOR	61086614	5	5	5	0	0	0							
SKIVERS	61088410	6	6	6	0	0	0							
DRAPERS	61089017	5	4	4	0	0	0							
THREAD TRIMMERS	61089071	21	19	19	0	0	0							
MARKERS	61089092	12	11	11	0	0	0							
TOTALS		3237	3138	3138	0	162	162							
SUPPLY:														
CLOTHING, APPAREL, & TEXTI	20.0301							43	26					69
CLOTHING MAINTENANCE AIDE	20.0302										9			9
COMMERCIAL GARMENT AND APP	20.0303										19			19
CUSTOM APPAREL/GARMENT SEA	20.0304										2			2
CUSTOM ALTERATION	20.0306										3			3
CLOTHING, APPAREL, & TEXTI	20.0399							4			1			5
TOTALS								47	26		34			107

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: CLOTHIHG & APPAREL CLUSTER CODE 1220

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
784.682-014	HAT-AND-CAP SEWER	5	5	1.00	N.A.
786.685-030	SEWING-MACHINE OPERATOR,	7	42	0.17	3.35
787.682-010	BINDER	0	5	0.00	3.35
787.682-042	SEWING-MACHINE OPERATOR	5	2	2.50	3.35
787.682-046	SEWING-MACHINE OPERATOR	468	248	1.89	3.76
787.682-062	SEWING-MACHINE OPERATOR	15	8	1.88	3.85
787.682-066	SEWING-MACHINE OPERATOR	10	0	--	N.A.
787.685-030	SERGING-MACHINE OPERATOR,	1	7	0.14	3.50

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: TAILORING & ALTERATION

CLUSTER CODE 1230

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ALTERATION TAILORS	50144401	559	563	561	-2	52	50							
CUSTOM TAILORS	50144402	11	11	11	0	1	1							
ALL AROUND TAILORS	50144403	7	7	7	0	1	1							
SEWERS, CUSTOM	61081600	130	131	132	1	12	13							
MENDERS	61085204	55	54	53	-1	2	1							
HAND SEWERS	61085213	1	1	1	0	0	0							
TOTALS		763	767	765	-2	68	66							
SUPPLY:														
CUSTOM TAILORING AND ALTER	20.0305										1			1
TOTALS											1			1

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: TAILORING & ALTERATION CLUSTER CODE 1230

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
785.261-010	ALTERATION TAILOR	72	45	1.60	3.88

NO SUPPLY REPORT

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: TEXTILE PRODUCTION

CLUSTER CODE 1240

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SHADE TICKET MARKERS	40066834	3	3	3	0	0	0							
KNITTING MACHINE OPERAT	61040403	77	85	85	0	3	3							
TWISTER TENDERS	61040615	1	2	2	0	0	0							
YARN WINDERS	61040618	1	1	1	0	0	0							
SPOOLER OPERATORS, AUTOM	61040619	5	6	6	0	0	0							
ROPE LAYING MACHINE OPE	61040621	1	1	1	0	0	0							
BEAMERS, HAND OR MACHINE	61040622	15	17	17	0	1	1							
TURNERS	61041027	32	30	30	0	1	1							
SORTERS, LEATHER	61060405	7	7	7	0	0	0							
HAND BLOCKERS, CAPS & HA	61081205	3	3	3	0	0	0							
PLEATING MACHINE OPERAT	61081207	2	2	2	0	0	0							
BIAS MACHINE OPERATORS	61081401	29	20	18	-2	0	-2							
CUTTERS, PORTABLE MACHIN	61081417	49	49	49	0	1	1							
DYE RANGE OPS/SP DYE BE	61082204	24	27	27	0	1	1							
TINTERS	61083852	9	8	8	0	0	0							
BAG SEWERS	61085206	26	25	24	-1	0	-1							
SPREADERS	61086612	39	37	37	0	1	1							
EYELET MACHINE OPERATOR	61086617	4	4	4	0	0	0							
SOABAR OPERATORS	61088443	8	8	8	0	0	0							
SHUTTLERS, EMBROIDERY	61089054	23	22	22	0	0	0							
TOTALS		358	357	354	-3	8	5							

SUPPLY:

NO SUPPLY REPORT

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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: TEXTILE PRODUCTION
CLUSTER CODE 1240

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
652.382-010	CLOTH PRINTER	17	3	5.67	5.00
683.682-030	PLUSH WEAVER	5	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: BAKING

CLUSTER CODE 1250

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
FOOD SHAPERS, HAND	50140201	39	40	39	-1	1	0							
BAKERS	50140202	386	395	397	2	17	19							
CAKE DECORATORS	50140205	76	78	78	0	1	1							
DEPOSITORS, FOOD	61086201	96	99	98	-1	2	1							
DOUGHNUT MAKRS/DOUGHNUT	61086258	147	152	153	1	3	4							
DIVIDING MACH OPERATORS	61086259	80	80	80	0	1	1							
OVEN OPERATORS	61086292	68	68	68	0	2	2							
BAKER HELPERS	61089003	148	148	148	0	7	7							
DECORATORS, BAKERY PRODU	61089012	24	24	24	0	1	1							
BAKERS, BREAD &/OR PASTR	70040200*	399	410	414	4	25	29							
TOTALS		1463	1494	1499	5	60	65							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
BAKING	20.0402							9	6		14		1	30
TOTALS								9	6		14		1	30

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IOWA OCCUPATIONAL INFORMATION NETWORK

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: BAKING CLUSTER CODE 1250

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
313.361-010	BAKER, SECOND	330	95	3.47	3.55
313.381-010	BAKER	79	14	5.64	3.63
524.381-010	CAKE DECORATOR	10	3	3.33	3.35
526.381-010	BAKER	131	24	5.46	3.91
526.381-014	BAKER APPRENTICE	4	6	0.67	3.83
526.684-010	DOUGHNUT MAKER	21	22	0.95	3.56

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: FOOD PRODUCTION & SERVICE

CLUSTER CODE 1260

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MANAGERS, REST'RANT, COFF	20061400	4730	4898	4960	62	136	258							
COOKS &/OR COOKERS	61086035	230	235	235	0	5	5							
SPINNERS, CONFECTION	61086229	3	3	3	0	0	0							
CANDY MAKERS	61086245	28	29	28	-1	1	0							
BAKERS, BREAD &/OR PASTR	70040200*	313	322	326	4	20	24							
DINING RM ATTNS, BAR HEL	70040600	4446	4569	4619	50	105	155							
COOKS, SHORT ORDER/SPEC	70040802	7034	7332	7421	89	66	155							
COOKS, RESTAURANT	70040803	5225	5407	5478	71	330	401							
COOKS, INSTITUTIONAL	70040804	7754	7756	7789	33	473	506							
COUNTER ATTNS, LUNCHRM, C	70041201	3070	3178	3218	40	38	78							
HOSTS/HOSTESSES, REST, LN	70041601	1323	1372	1391	19	70	89							
WAITERS OR WAITRESSES	70041602	22573	23313	23601	288	466	754							
KITCHEN HELPERS	70041802	12711	12893	12978	85	593	678							
FD PREP & SERV WKRS, FAS	70041804	13735	14231	14416	185	783	968							
PANTRY, SANDWICH, &/OR CO	70041805	967	989	998	9	54	63							
ALL OTHER FOOD SERVICE	70041899	3918	4026	4071	45	48	93							
SUPERVISORS, NONWORKING,	70200001*	291	297	300	3	15	18							
TOTALS		88354	90850	91832	982	3263	4245							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
RESTRAURANT MANAGEMENT	06.0704										3			3
WAITER/WAITRESS AND RELATE	08.0905							240			15			255
FOOD PRODUCTION, MANAGEMEN	20.0401							213	37					250
FOOD PRODUCTION, MANAGEMEN	20.0401J											9		9
CHEF/COOK	20.0403							67	71		55	2	48	243
FOOD CATERING	20.0405										2			2
FOOD SERVICE	20.0406							6			47		1	54
SCHOOL FOOD SERVICE	20.0408										48			48
FOOD PRODUCTION, MANAGEMEN	20.0499							17						17
TOTALS								543	108		170	11	49	881

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: FOOD PRODUCTION & SERVICE
CLUSTER CODE 1260

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
185.137-010	MANAGER, FAST FOOD SERVIC	270	39	6.92	4.44
187.161-010	EXECUTIVE CHEF	5	0	--	N.A.
187.167-106	MANAGER, FOOD SERVICE	967	101	9.57	5.07
187.167-126	MANAGER, LIQUOR ESTABLISH	154	6	25.67	5.74
305.281-010	COOK	5	1	5.00	3.60
310.137-010	HOST/HOSTESS, RESTAURANT	184	182	1.01	3.57
310.137-014	KITCHEN SUPERVISOR	18	12	1.50	4.33
311.137-010	COUNTER SUPERVISOR	5	0	--	N.A.
311.137-022	WAITER/WAITRESS, HEAD	6	0	--	N.A.
311.477-010	CAR HOP	532	309	1.72	3.39
311.477-014	COUNTER ATTENDANT, LUNCHR	1052	1901	0.55	3.39
311.477-018	WAITER/WAITRESS, BAR	337	270	1.25	3.45
311.477-026	WAITER/WAITRESS, FORMAL	234	196	1.19	3.68
311.477-030	WAITER/WAITRESS, INFORMAL	6286	2788	2.25	3.40
311.477-034	WAITER/WAITRESS, ROOM SER	26	0	--	N.A.
311.477-038	WAITER/WAITRESS, TAKE OUT	125	205	0.61	3.35
311.677-010	CAFETERIA ATTENDANT	108	155	0.70	3.42
311.677-014	COUNTER ATTENDANT, CAFETE	163	190	0.86	3.45
311.677-018	DINING ROOM ATTENDANT	187	230	0.81	3.39
312.687-010	BARTENDER HELPER	5	20	0.25	3.41
313.131-010	BAKER, HEAD	6	0	--	N.A.
313.131-014	CHEF	75	13	5.77	5.31
313.131-018	COOK, HEAD, SCHOOL CAFETE	5	3	1.67	7.18
313.361-010	BAKER, SECOND	330	95	3.47	3.55
313.361-014	COOK	3001	1163	2.58	3.66
313.361-018	COOK APPRENTICE	33	5	6.60	3.35
313.361-022	COOK, SHORT ORDER 1	858	804	1.07	3.37
313.361-026	COOK, SPECIALTY	13	4	3.25	3.65
313.361-030	COOK, SPECIALTY, FOREIGN	18	13	1.38	5.26
313.381-010	BAKER	79	14	5.64	3.63
313.381-014	BAKER, PIZZA	111	101	1.10	3.39
313.381-030	COOK, SCHOOL CAFETERIA	13	1	13.00	3.35
313.671-010	COOK, SHORT ORDER 2	125	39	3.21	3.42
315.361-010	COOK	470	152	3.09	3.91
315.381-010	COOK	262	66	3.97	3.53
317.384-010	SALAD MAKER	3	8	0.38	3.56
317.684-014	PANTRY GOODS MAKER	70	38	1.84	3.64
317.684-018	SANDWICH MAKER	10	9	1.11	3.60
317.687-010	COOK HELPER	229	94	2.44	3.53
318.687-010	KITCHEN HELPER	3734	1184	3.15	3.44
318.687-014	SCULLION	67	52	1.29	4.05
318.687-018	SILVER WRAPPER	43	10	4.30	3.86
319.137-010	FOOD-SERVICE SUPERVISOR	28	11	2.55	4.83
319.467-010	FOOD ORDER EXPEDITER	116	40	2.90	3.36
319.474-010	FOUNTAIN SERVER	9	32	0.28	3.37

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IOWA OCCUPATIONAL INFORMATION NETWORK

ANALYSIS INFORMATION

STATEWIDE ..(Continued) IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: FOOD PRODUCTION & SERVICE CLUSTER CODE 1260

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
319.484-010	FOOD ASSEMBLER, KITCHEN	2	14	0.14	4.79
319.677-010	CATERER HELPER	6	3	2.00	5.72
319.687-010	COUNTER-SUPPLY WORKER	7	21	0.33	3.85
355.677-010	FOOD-SERVICE WORKER, HOSP	335	112	2.99	3.89
526.381-026	COOK, KETTLE	4	14	0.29	3.80
526.686-010	BAKER HELPER	57	40	1.42	5.15
529.685-202	RENDERING-EQUIPMENT TENDE	5	0	--	N.A.

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                                          02/26/86
                              IOWA OCCUPATIONAL INFORMATION NETWORK
                              S U P P L Y - D E M A N D   R E P O R T
STATEWIDE
CLUSTER TITLE:  DIETETIC ASSISTING
                                                                                        CLUSTER CODE 1270
-------------------------------------------------------------------------------------------------------------
  - OCCUPATION/PROGRAM -   CODE     1985  1987  1988  (ESTIMATED '87-'88) PUBLIC PUBLIC PRIVATE JTPA/ APPRE- MILIT-  TOTAL
    T I T L E                       EMPL  EMPL  EMPL  GROWTH REPLAC OPEN  SECOND P. SEC P. SEC  OJT   TICE   ARY
-------------------------------------------------------------------------------------------------------------

         DEMAND DATA:
DIETETIC TECHNICIANS    10121011     184   184   184     0     11     11
                              ------------------------------------------
TOTALS                               184   184   184     0     11     11



         SUPPLY:
DIETETIC AIDE/ASSISTING     20.0404                                    4      *             4                    8
                                                                  -------------------------------------------------
TOTALS                                                                 4                    4                    8
```

NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: BARTENDING

CLUSTER CODE 1280

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
BARTENDERS	70040400	6670	6794	6843	49	313	362							
TOTALS		6670	6794	6843	49	313	362							
SUPPLY:														
BARTENDING	12.0202									96				96
TOTALS										96				96

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: BARTENDING CLUSTER CODE 1280

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
312.474-010	BARTENDER	1822	453	4.02	3.73
312.477-010	BAR ATTENDANT	64	21	3.05	3.65

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: HOME FURNISHINGS

CLUSTER CODE 1290

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DRAPERY HANGERS	50083201	31	31	31	0	1	1							
FURNITURE UPHOLSTERERS	50144601	44	43	42	-1	3	2							
CUSHION MAKERS	50144602	25	27	27	0	1	1							
DRAPERY & UPHOLSTERY ME	61089221	21	21	21	0	1	1							
TOTALS		121	122	121	-1	6	5							
SUPPLY:														
HOME FURNISHINGS & EQUIP.	20.0501								18	6				24
CUSTOM DRAPERY AND WINDOW	20.0502										6			6
CUSTOM SLIPCOVERING & UPHO	20.0503										3			3
TOTALS									18	6	9			33

02/24/86
IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: HOME FURNISHINGS CLUSTER CODE 1290

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
780.381-018	FURNITURE UPHOLSTERER	13	7	1.86	4.72
780.684-066	FILLER	1	7	0.14	3.35

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: INTERIOR DESIGN

CLUSTER CODE 1300

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DESIGNERS	10221001*	172	174	175	1	5	6							
BUYERS, RETAIL &/OR WHOL	10240804*	82	82	83	1	3	4							
TOTALS		254	256	258	2	8	10							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
HOME DECORATING AND DESIGN	20.050										3			3
TOTALS											3			3

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: INTERIOR DESIGN — CLUSTER CODE 1300

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
142.051-014	INTERIOR DESIGNER	55	17	3.24	4.00
162.157-018	BUYER	72	4	18.00	8.94

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MISCELLANEOUS PUBLIC SERVICE

CLUSTER CODE 1320

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DISPATCHERS, POLICE, FIRE	40061803	681	707	719	12	13	25							
DISPATCHERS, VEHICLE, SER	40061804	736	765	769	4	14	18							
POSTAL MAIL CARRIERS	40063200	6852	6990	7128	138	273	411							
METER READERS, TAXI	40065214	2	2	2	0	0	0							
TELEGRAPH OPERATORS	40066000	155	152	151	-1	2	1							
SWITCHBOARD OPERATORS	40066201	1309	1355	1368	13	45	58							
CENTRAL OFFICE OPERATOR	40066202	335	349	352	3	12	15							
DIRECTORY ASSISTANCE OP	40066203	26	27	27	0	1	1							
PRIVATE BRANCH SERVICE	40066204	5	5	5	0	0	0							
PROTECTIVE SIGNAL OPERA	40066831	21	24	25	1	1	2							
DISPATCHERS, RELAY	50144023	11	11	11	0	1	1							
CROSSING OR BRIDGE TEND	70100202	15	15	15	0	0	0							
SCHOOL CROSSING GUARDS	70100203	239	248	252	4	40	44							
TOTALS		10387	10650	10824	174	402	576							

SUPPLY:

NO SUPPLY REPORT

02/24/86
IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MISCELLANEOUS PUBLIC SERVICE CLUSTER CODE 1320

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
203.582-050	TELEGRAPHIC-TYPEWRITER OP	92	37	2.49	4.91
230.367-010	MAIL CARRIER	15	0	--	N.A.
235.462-010	CENTRAL-OFFICE OPERATOR	34	1	34.00	3.40
235.662-022	TELEPHONE OPERATOR	169	62	2.73	4.13
235.662-026	TELEPHONE-ANSWERING-SERVI	6	9	0.67	3.77
239.367-014	DISPATCHER, MAINTENANCE S	8	2	4.00	5.64
249.167-014	DISPATCHER, MOTOR VEHICLE	50	15	3.33	5.73
371.567-010	GUARD, SCHOOL-CROSSING	12	3	4.00	4.90
379.362-010	DISPATCHER, RADIO	37	3	12.33	4.29
913.367-010	TAXICAB STARTER	14	1	14.00	3.35

02/27/86
IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: COMMUNICATIONS

CLUSTER CODE 1340

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
RADIO OPERATORS	10141000	177	183	186	3	4	7							
ANNOUNCERS	10222201	800	838	845	7	8	15							
BROADCAST NEWS ANALYSTS	10222202	163	170	171	1	9	10							
TOTALS		1140	1191	1202	11	21	32							

SUPPLY:

NO SUPPLY REPORT

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: COMMUNICATIONS — CLUSTER CODE 1340

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
159.147-010	ANNOUNCER	144	18	8.00	3.49
193.262-014	DISPATCHER	6	0	--	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: EDUCATIONAL MEDIA

CLUSTER CODE 1350

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
AUDIO VISUAL SPECIALIST	10242402	58	58	58	0	4	4							
TOTALS		58	58	58	0	4	4							
SUPPLY:														
EDUCATIONAL MEDIA TECHNOLO	10.0101							3						3
TOTALS								3						3

NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: RADIO & TV TECHNOLOGY

CLUSTER CODE 1360

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SOUND RECORDING & REPRO	10080801	7	8	8	0	0	0							
VIDEO RECORDING ENGINEE	10080802	13	13	13	0	0	0							
BROADCAST TECHNICIANS	10080808	242	253	254	1	6	7							
LIGHT TECHNICIANS	10081815	12	12	12	0	0	0							
FILM EDITORS	10221202	10	12	13	1	1	2							
TELEVISION CAMERA OPERA	10221802	40	41	42	1	1	2							
TECHNICAL DIRECTORS	10243802	21	22	22	0	1	1							
TRAFFIC CLERKS	40066826	72	75	75	0	2	2							
TOTALS		417	436	439	3	11	14							
SUPPLY:														
RADIO/TELEVISION NEWS BROA	09.0601							1					3	4
RADIO AND TELEVISION PRODU	10.0104							31	26	55	2		2	116
TOTALS								32	26	55	2		5	120

NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: MORTUARY SERVICES

CLUSTER CODE 1370

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
EMBALMERS	10140600	188	182	177	-5	4	-1							
MORTUARY BEAUTICIANS	70080602	37	36	35	-1	1	0							
CREMATORS	70080605	2	2	2	0	0	0							
FUNERAL ATTENDANTS	70080607	182	175	171	-4	16	12							
TOTALS		409	395	385	-10	21	11							

SUPPLY:

NO SUPPLY REPORT

02/24/86
IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MORTUARY SERVICES CLUSTER CODE 1370

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
359.677-014	FUNERAL ATTENDANT	5	0	--	N.A.

02/27/86
IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: CIVIL TECHNOLOGY

CLUSTER CODE 1400

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SURVEYORS	10081600	434	438	441	3	9	12							
CIVIL ENGINEERING TECHN	10081816	761	770	775	5	11	16							
SURVEYOR HELPERS	61081000	423	428	432	4	6	10							
TOTALS		1618	1636	1648	12	26	38							
SUPPLY:														
CIVIL TECHNOLOGY	15.0201								23		1		1	25
SURVEYING AND MAPPING TECH	15.0203										1		8	9
TOTALS									23		2		9	34

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: CIVIL TECHNOLOGY CLUSTER CODE 1400

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
018.167-034	SURVEYOR ASSISTANT, INSTR	13	3	4.33	7.74
869.567-010	SURVEYOR HELPER	31	33	0.94	5.07

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: ELECTRICAL & ELECTRONIC TECH

CLUSTER CODE 1410

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
ELECTRICAL & ELECTRONIC	10080803	3081	3112	3126	14	50	64							
ALL OTHR ENGINEERING TE	10081898*	110	112	113	1	2	3							
ELECTRONIC MECHANICS	50083227	112	114	117	3	5	8							
INSPECTORS	50142202*	723	737	743	6	23	29							
WIRERS,ELECTRONIC	61080415	142	144	143	-1	3	2							
COIL FINISHERS	61080416	102	102	103	1	2	3							
ELEC & ELECT ASSEMBLERS	61080439	673	686	693	7	14	21							
COIL WINDERS	61085810	136	138	140	2	3	5							
IMPREGNATORS,ELECTRONIC	61088236	13	14	14	0	0	0							
ENCAPSULATORS	61088428	11	12	12	0	0	0							
TOTALS		5103	5171	5204	33	102	135							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:								
ELECTRICAL TECHNOLOGY	15.0302		15					15
ELECTRONIC TECHNOLOGY	15.0303	1	402	329	3		4	739
ELECTRONICS OCCUPATIONS	47.0101	22	41		1			64
INDUSTRIAL ELECTRONICS	47.0105	1	17		39			57
TOTALS		24	475	329	43		4	875

02/24/86
IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: ELECTRICAL & ELECTRONIC TECH — CLUSTER CODE 1410

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
003.161-010	ELECTRICAL TECHNICIAN	19	15	1.27	6.18
003.161-014	ELECTRONICS TECHNICIAN	301	19	15.84	6.71
199.361-010	RADIOGRAPHER	10	0	--	N.A.
724.684-026	COIL WINDER	11	9	1.22	3.64
725.687-026	QUALITY-CONTROL INSPECTOR	5	0	--	N.A.
726.381-010	ELECTRONICS INSPECTOR 1	20	3	6.67	7.34
726.684-022	ELECTRONICS INSPECTOR 2	7	0	--	N.A.
828.251-010	ELECTRONIC-SALES-AND-SERV	5	0	--	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: COMPUTER & BUS ELECTRONICS

CLUSTER CODE 1420

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DATA PROCESSING MACH ME	50081400	128	126	126	0	5	5							
OFF MACH SERVICERS/CASH	50082400	471	467	465	-2	9	7							
TOTALS		599	593	591	-2	14	12							
SUPPLY:														
COMPUTER SERVICING TECHNOL	15.0402										1		69	70
BUSINESS MACHINE REPAIR	47.0102										6	1	1	8
COMPUTER ELECTRONICS	47.0104							2	70		8			80
TOTALS								2	70		15	1	70	158

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: COMPUTER & BUS ELECTRONICS — CLUSTER CODE 1420

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
633.281-018	OFFICE-MACHINE SERVICER	29	9	3.22	5.18
828.281-010	ELECTRONICS MECHANIC	522	104	5.02	6.32
828.281-014	ELECTRONICS-MECHANIC APPR	11	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: BIOMEDICAL EQUIPMENT TECH

CLUSTER CODE 1430

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ELECTROMEDICAL EQUIPMT	50083224	51	51	51	0	5	5							
TOTALS		51	51	51	0	5	5							
SUPPLY:														
BIOMEDICAL EQUIPMENT TECHN	15.0401										1		4	5
TOTALS											1		4	5

NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: ENVIRONMENTAL CONTROL TECH

CLUSTER CODE 1440

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
TREATMENT PLANT MECHANI	50081810	60	62	63	1	1	2							
SEWAGE PLANT OPERATORS	50144013	728	755	768	13	27	40							
WASTE TREATMENT PLANT O	50144021	14	12	12	0	0	0							
WATER TREATMENT PLANT O	50144025	573	594	604	10	21	31							
TOTALS		1375	1423	1447	24	49	73							
SUPPLY:														
WATER AND WASTEWATER TECHN	15.0506								20					20
TOTALS									20					20

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: ENVIRONMENTAL CONTROL TECH CLUSTER CODE 1440

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
955.362-010	WASTEWATER-TREATMENT-PLAN	27	7	3.86	7.42

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: CHEMICAL MANUFACTURING TECH

CLUSTER CODE 1450

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
MIXERS & BLENDERS,CHEMI	61083855	334	309	298	-11	7	-4							
FURNACE &/OR BURNER TEN	61085612	31	27	25	-2	1	-1							
BATH MAKERS	61087243	2	2	2	0	0	0							
KETTLE WORKERS,SOAP	61087246	1	1	1	0	0	0							
EVAPORATOR OPERATORS,CH	61087254	16	14	14	0	1	1							
KETTLE OPERATORS,ADHESI	61087257	3	2	2	0	0	0							
COMPRESSORS,TABLET	61087284	3	3	3	0	0	0							
COATERS,PILL	61087285	2	2	2	0	0	0							
STILL OPERATORS,BATCH O	61087287	2	2	2	0	0	0							
CHEMICAL OPERATOR HELPE	61087288	63	56	54	-2	2	0							
CHEMICAL OPERATORS A	61087290	301	271	259	-12	10	-2							
CHEMICAL OPERATORS B	61087291	100	93	87	-6	4	-2							
MOLDERS,MACHINE(DRUGS)	61087292	2	2	2	0	0	0							
DRIER OPERATORS,CHEM,PL	61087294	26	22	22	0	1	1							
CHIEF OPERATORS	61087295	43	38	36	-2	1	-1							
GRANULATOR MACHINE OPER	61088628	2	2	2	0	0	0							
TOTALS		931	846	811	-35	27	-8							
SUPPLY:														
CHEMICAL MANUFACTURING TEC	15.0601								1					1
TOTALS									1					1

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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: CHEMICAL MANUFACTURING TECH
CLUSTER CODE 1450

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
558.585-014	CHEMICAL OPERATOR 2	9	4	2.25	8.50
559.362-014	FINISHING-AREA OPERATOR	8	6	1.33	5.46
559.382-018	CHEMICAL OPERATOR 3	10	8	1.25	8.78
559.382-046	PILOT-CONTROL OPERATOR	17	12	1.42	7.18
559.687-026	CONTACT-ACID-PLANT-OPERAT	13	0	--	N.A.

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                                                        02/27/86
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                                            S U P P L Y - D E M A N D   R E P O R T
STATEWIDE
CLUSTER TITLE:  ELECTROMECHANICAL TECHNOLOGY
                                                                                                  CLUSTER CODE 1480
-------------------------------------------------------------------------------------------------------------------
   - OCCUPATION/PROGRAM -   CODE    1985   1987   1988  (ESTIMATED '87-'88) PUBLIC  PUBLIC  PRIVATE  JTPA/  APPRE- MILIT-   TOTAL
     T I T L E                      EMPL   EMPL   EMPL  GROWTH REPLAC OPEN  SECOND  P. SEC  P. SEC   OJT    TICE   ARY
-------------------------------------------------------------------------------------------------------------------

          DEMAND DATA:
ELECTRICAL INSTRUMENT R  50083206     60     59     58     -1      5     4
INSTRUMENT REPAIRERS     50083221    286    284    283     -1      9     8
FIELD MECHANICAL METER   50144824      8      9      9      0      0     0
INSTRUMENT MAKERS & ASS  61080437    204    212    217      5      4     9
ELEC MECH EQUIPMT ASSEM  61080438    329    325    327      2      7     9
                              ---------------------------------------------
TOTALS                               887    889    894      5     25    30



          SUPPLY:
ELECTROMECHANICAL TECHNOLO   15.0403                                             40               2               5     47
INSTRUMENTATION TECHNOLOGY   15.0404                                      1                                             1

                                                                  ---------------------------------------------------------
TOTALS                                                                    1      40               2               5     48
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NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: INDUSTRIAL TECHNOLOGY

CLUSTER CODE 1470

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
INDUSTRIAL ENGINRING TE	10081000	382	393	398	5	2	7							
COST ESTIMATORS	10243808*	183	184	187	3	3	6							
TOTALS		565	577	585	8	5	13							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
FOOD PROCESSING TECHNOLOGY	15.0602												5	5
INDUSTRIAL TECHNOLOGY	15.0603										4			4
MANUFACTURING TECHNOLOGY	15.0604								560		3			563
TOTALS									560		7		5	572

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: INDUSTRIAL TECHNOLOGY CLUSTER CODE 1470

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
012.261-014	QUALITY-CONTROL TECHNICIA	36	5	7.20	9.16
012.267-010	INDUSTRIAL ENGINEERING TE	13	2	6.50	9.04
160.267-018	ESTIMATOR	45	14	3.21	7.05

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: QUALITY CONTROL TECHNOLOGY

CLUSTER CODE 1510

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
RADIOGRAPHERS	10081806	30	34	35	1	0	1							
SPECTROSCOPISTS	10081807	11	12	12	0	0	0							
INSPECTORS	50142202*	2058	2097	2115	18	65	83							
TESTERS	50142205*	665	678	686	8	12	20							
TOTALS		2764	2821	2848	27	77	104							

* indicates occupation code occurs in other clusters.

SUPPLY:														
QUALITY CONTROL TECHNOLOGY	15.0702								5		2			7
TOTALS									5		2			7

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: QUALITY CONTROL TECHNOLOGY CLUSTER CODE 1510

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
529.387-026	INSPECTOR, GRAIN MILL PRO	5	0	--	N.A.
529.387-030	QUALITY-CONTROL TECHNICIA	9	10	0.90	3.75
529.687-074	EGG CANDLER	13	0	--	N.A.
609.684-010	INSPECTOR, GENERAL	191	21	9.10	8.28
624.361-010	INSPECTOR AND TESTER	16	0	--	N.A.
649.367-010	INSPECTOR, PAPER PRODUCTS	4	15	0.27	4.73
734.687-038	BUTTON GRADER	6	0	--	N.A.
759.584-010	RUBBER-GOODS INSPECTOR-TE	20	0	--	N.A.
801.381-018	MAJOR-ASSEMBLY INSPECTOR	5	0	--	N.A.
806.687-014	CHASSIS INSPECTOR	0	10	0.00	N.A.
862.687-018	HYDRO-PNEUMATIC TESTER	11	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: MECHANICAL DESIGN TECHNOLOGY

CLUSTER CODE 1550

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MECHAN ENGINEERING TECH	10081400	474	476	481	5	7	12							
TOTALS		474	476	481	5	7	12							
SUPPLY:														
MECHANICAL DESIGN TECHNOLO	15.0805							1	55		3			59
TOTALS								1	55		3			59

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: MECHANICAL DESIGN TECHNOLOGY CLUSTER CODE 1550

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
007.161-026	MECHANICAL-ENGINEERING TE	37	7	5.29	6.86

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: LEGAL ASSISTING

CLUSTER CODE 1580

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PARALEGAL PERSONNEL	10242203	453	463	465	2	30	32							
TITLE EXAMINERS &/OR AB	10243811	253	263	268	5	17	22							
TITLE SEARCHERS	40066825	104	107	109	2	7	9							
TOTALS		810	833	842	9	54	63							
SUPPLY:														
LEGAL ASSISTING	22.0103												3	3
LEGAL ASSISTING	22.0103C								71					71
TOTALS									71				3	74

NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: LIBRARY ASSISTING

CLUSTER CODE 1590

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
TECHNICAL ASSISTANTS,LI	10141405	225	229	231	2	5	7							
LIBRARY ASSISTANTS	40063000	1246	1272	1286	14	43	57							
TOTALS		1471	1501	1517	16	48	64							
SUPPLY:														
LIBRARY ASSISTING	25.0301							9			1			10
TOTALS								9			1			10

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IOWA OCCUPATIONAL INFORMATION NETWORK

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: LIBRARY ASSISTING CLUSTER CODE 1590

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
100.367-018	LIBRARY TECHNICAL ASSISTA	4	9	0.44	4.16
249.367-046	LIBRARY ASSISTANT	74	23	3.22	4.63

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MISCELLANEOUS TECHNOLOGY

CLUSTER CODE 1600

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
BIO & AGRICUL SCI TE	10080201	656	665	675	10	9	19							
MATHEMATICAL TECHNICIAN	10081200	17	17	19	2	0	2							
PHYSICAL SCIENCE TECHNI	10081812	65	63	61	-2	1	-1							
TRAFFIC TECHNICIANS	10081813	18	19	19	0	0	0							
ALL OTHR ENGINEERING TE	10081898*	876	891	898	7	12	19							
ALL OTHER SCIENCE TECHN	10081899	855	861	862	1	11	12							
ALL OTHER TECHNICIANS	10141404	1217	1241	1252	11	29	40							
TOTALS		3704	3757	3786	29	62	91							

* indicates occupation code occurs in other clusters.

SUPPLY:														
BIOTECHNOLOGY	15.0611								11					11
CLINICAL ANIMAL TECHNOLOGY	17.0303												2	2
TOTALS									11				2	13

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MISCELLANEOUS TECHNOLOGY CLUSTER CODE 1600

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
011.261-010	METALLURGICAL TECHNICIAN	5	0	--	N.A.
020.162-010	MATHEMATICAL TECHNICIAN	22	11	2.00	7.98
022.261-010	CHEMICAL-LABORATORY TECHN	5	3	1.67	8.19
029.261-010	LABORATORY TESTER	213	48	4.44	6.58
029.261-022	TESTER	41	4	10.25	3.81
049.384-010	BIOLOGICAL AIDE	6	4	1.50	6.15
073.361-010	LABORATORY TECHNICIAN, VE	6	0	--	N.A.
199.167-010	RADIATION MONITOR	5	0	--	N.A.
199.361-010	RADIOGRAPHER	10	0	--	N.A.
199.364-014	SCIENTIFIC HELPER	10	2	5.00	3.75
979.382-018	GRAPHIC ARTS TECHNICIAN	12	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: AIRPLANE PILOTING

CLUSTER CODE 1620

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN)	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
AIRPLANE PILOTS	10140200	154	158	161	3	2	5							
TOTALS		154	158	161	3	2	5							
SUPPLY:														
AIRPLANE PILOTING AND NAVI	49.0102												8	8
TOTALS													8	8

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: AIRPLANE PILOTING — CLUSTER CODE 1620

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
196.263-014	AIRPLANE PILOT, COMMERCIA	48	6	8.00	9.87

IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: AIR TRAFFIC CONTROL

CLUSTER CODE 1630

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
AIR TRAFFIC CONTROLLERS	10140400	150	153	156	3	3	6							
DISPATCHERS, AIRPLANE	40061801	3	3	3	0	0	0							
TOTALS		153	156	159	3	3	6							
SUPPLY:														
AIR TRAFFIC CONTROL	49.0105												5	5
TOTALS													5	5

NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: GENERAL SUPERVISION

CLUSTER CODE 1640

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SUPERVISORS,NONWORKING	50040003*	3213	3241	3254	13	94	107							
SUPERVISORS,NONWORKING,	70200001*	1771	1810	1825	15	92	107							
TOTALS		4984	5051	5079	28	186	214							

* indicates occupation code occurs in other clusters.

SUPPLY:

NO SUPPLY REPORT

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: GENERAL SUPERVISION CLUSTER CODE 1640

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
372.167-014	GUARD, CHIEF	15	20	0.75	3.53
379.137-010	SUPERVISOR, ANIMAL CRUELT	1	50	0.02	7.48
381.137-010	SUPERVISOR, JANITORIAL SE	72	21	3.43	4.66
529.137-014	SANITARIAN	6	2	3.00	4.50
620.131-014	SUPERVISOR, GARAGE	35	4	8.75	6.26
638.131-022	MAINTENANCE-MECHANIC SUPE	33	4	8.25	13.58
891.137-010	MAINTENANCE SUPERVISOR	53	16	3.31	7.00
921.133-018	MATERIAL-HANDLING SUPERVI	32	0	--	N.A.
922.137-018	SUPERVISOR, LOADING AND U	22	7	3.14	5.49
929.137-022	WAREHOUSE SUPERVISOR	136	7	19.43	6.83

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: TRADE & INDUSTRIAL SUPER
CLUSTER CODE 1650

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SUPERVISORS,NONWORKING	50040003*	9438	9520	9557	37	276	313							
TOTALS		9438	9520	9557	37	276	313							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
TRADE AND INDUSTRIAL SUPER	06.2001										14		8	22
TOTALS											14		8	22

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STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: TRADE & INDUSTRIAL SUPER — CLUSTER CODE 1650

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
382.137-010	SUPERVISOR, MAINTENANCE	6	0	--	N.A.
519.131-010	FOUNDRY SUPERVISOR	5	0	--	N.A.
525.131-010	SUPERVISOR, ABATTOIR	6	0	--	N.A.
525.131-014	SUPERVISOR, CUTTING AND B	8	0	--	N.A.
526.131-010	BAKERY SUPERVISOR	5	1	5.00	8.00
529.137-014	SANITARIAN	6	2	3.00	4.50
529.137-026	SUPERVISOR	2	7	0.29	12.02
609.130-010	MACHINE-SHOP SUPERVISOR,	9	2	4.50	6.71
609.131-010	INSPECTION SUPERVISOR	15	7	2.14	10.55
619.130-030	SUPERVISOR, LINE	13	8	1.63	4.82
619.130-034	SUPERVISOR, MACHINE SETTE	5	0	--	N.A.
619.130-038	SUPERVISOR, PIPE FINISHIN	6	0	--	N.A.
638.131-022	MAINTENANCE-MECHANIC SUPE	33	4	8.25	13.58
699.130-010	PRODUCTION SUPERVISOR	51	2	25.50	13.27
750.130-010	SUPERVISOR	6	0	--	N.A.
801.131-014	SUPERVISOR, FITTING	12	0	--	N.A.
801.137-010	SUPERVISOR, ASSEMBLY	21	1	21.00	N.A.
809.130-014	SUPERVISOR, METAL FABRICA	24	3	8.00	10.85
819.131-014	WELDING SUPERVISOR	17	1	17.00	8.65
850.137-014	SUPERVISOR, LABOR GANG	13	0	--	N.A.
860.131-018	SUPERVISOR, CARPENTERS	19	6	3.17	9.50
860.137-010	CARPENTER-LABOR SUPERVISO	5	0	--	N.A.
869.131-014	CONCRETING SUPERVISOR	9	1	9.00	10.00
891.137-010	MAINTENANCE SUPERVISOR	53	16	3.31	7.00
921.133-018	MATERIAL-HANDLING SUPERVI	32	0	--	N.A.
922.137-018	SUPERVISOR, LOADING AND U	22	7	3.14	5.49
929.137-018	WAREHOUSE SUPERVISOR	7	0	--	N.A.
929.137-022	WAREHOUSE SUPERVISOR	136	7	19.43	6.83

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: FIREFIGHTING

CLUSTER CODE 1670

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
FIRE FIGHTERS	70100401	1952	2025	2061	36	20	56							
FIRE INSPECTORS	70100402	44	46	47	1	0	1							
FIRE OFFICERS	70100403	399	414	422	8	6	14							
TOTALS		2395	2485	2530	45	26	71							
SUPPLY:														
FIRE CONTROL AND SAFETY TE	43.0201							1						1
FIRE CONTROL AND SAFETY TE	43.0201C								4					4
FIREFIGHTING	43.0203												13	13
TOTALS								1	4				13	18

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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: FIREFIGHTING
CLUSTER CODE 1670

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
373.364-010	FIRE FIGHTER	5	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: LAW ENFORCEMENT SERVICES

CLUSTER CODE 1680

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
GUARDS & DOORKEEPERS	70100601	4519	4847	4924	77	470	547							
CORRECTION OFFICERS &/O	70100607	1160	1174	1181	7	28	35							
U.S. MARSHALLS	70100800	22	22	23	1	2	3							
DETECTIVES, PRIVATE	70101001	36	40	41	1	4	5							
STORE DETECTIVES	70101002	163	164	163	-1	16	15							
RAILROAD POLICE	70101003	21	21	20	-1	2	1							
POLICE OFFICERS	70101004	842	873	888	15	35	50							
POLICE DETECTIVES	70101005	224	231	235	4	3	7							
POLICE PATROLMEN/WOMEN	70101006	2598	2689	2732	43	35	78							
PARKING ENFORCEMENT OFF	70101007	172	176	179	3	7	10							
SHERIFFS	70101201	429	445	452	7	18	25							
BAILIFFS	70101202	214	222	226	4	9	13							
TOTALS		10400	10904	11064	160	629	789							
SUPPLY:														
CORRECTIONS	43.0102C								30					30
CRIMINAL JUSTICE TECHNOLOG	43.0105								62					62
LAW ENFORCEMENT	43.0107										5		82	87
LAW ENFORCEMENT	43.0107C								59					59
SECURITY SERVICES	43.0109								15		12		20	47
CRIMINAL JUSTICE, OTHER	43.0199J											1		1
TOTALS									166		17	1	102	286

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STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: LAW ENFORCEMENT SERVICES — CLUSTER CODE 1680

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
372.367-014	JAILER	2	5	0.40	5.37
372.667-010	AIRLINE SECURITY REPRESEN	26	33	0.79	5.85
372.667-018	CORRECTION OFFICER	99	59	1.68	7.35
372.667-030	GATE TENDER	13	1	13.00	6.75
372.667-034	GUARD, SECURITY	1212	445	2.72	4.31
372.667-038	MERCHANT PATROLLER	212	118	1.80	4.27
375.263-014	POLICE OFFICER 1	122	14	8.71	7.28
375.367-010	POLICE OFFICER 2	39	1	39.00	N.A.
376.367-014	DETECTIVE 1	16	7	2.29	3.95
376.367-018	HOUSE OFFICER	19	1	19.00	5.00
376.667-010	BOUNCER	1	8	0.13	3.67
377.263-010	SHERIFF, DEPUTY	5	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: DRYCLEANING

CLUSTER CODE 1690

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
PRESSERS, HAND	61081201	48	45	44	-1	1	0							
PRESSERS, MACHINE	61081202	376	366	358	-8	25	17							
PRESSERS, MACHINE, LAUNDR	61081203	1057	1043	1036	-7	72	65							
MARKERS, CLASSIFIERS, ASS	61082801	176	173	169	-4	7	3							
SPOTTERS, DRYCLEANING	61082802	54	52	51	-1	4	3							
SPOTTERS, WASHABLE MATER	61082803	20	19	19	0	1	1							
WASHERS, MACH &/OR STARC	61082804	1362	1360	1360	0	112	112							
TUMBLER OPERATORS	61082805	37	36	35	-1	1	0							
DRYCLEANING MACHINE OPE	61082806	105	101	99	-2	8	6							
DRYCLEANERS, HAND	61082807	12	11	11	0	0	0							
LAUNDRY OPERATORS, SM ES	61082809	212	220	223	3	18	21							
RUG CLEANERS, HAND	61082812	16	15	15	0	0	0							
RUG CLEANERS, MACHINE	61082813	63	61	60	-1	5	4							
FOLDERS, LAUNDRY	61082818	147	142	138	-4	3	-1							
WASHERS, SYNTHETIC FIBER	61082820	8	9	9	0	0	0							
SPOT CLEANERS	61089062	3	3	3	0	0	0							
TOTALS		3696	3656	3630	-26	257	231							
SUPPLY:														
DRYCLEANING AND LAUNDERING	12.0101							1						1
DRYCLEANING	12.0102										3		1	4
LAUNDERING	12.0103										5		1	6
TOTALS								1			8		2	11

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: DRYCLEANING — CLUSTER CODE 1690

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
361.665-010	WASHER, MACHINE	8	10	0.80	3.62
361.684-010	LAUNDERER, HAND	3	10	0.30	3.56
361.687-010	ASSEMBLER, WET WASH	10	2	5.00	4.76
362.382-014	DRY CLEANER	5	4	1.25	3.50
363.682-018	PRESSER, MACHINE	23	13	1.77	3.75
363.685-014	PRESSER, AUTOMATIC	0	5	0.00	3.38
369.384-014	RUG CLEANER, HAND	16	13	1.23	3.84
369.684-014	LAUNDRY OPERATOR	10	1	10.00	3.35
369.687-018	FOLDER	2	10	0.20	3.45

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: BARBERING

CLUSTER CODE 1700

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
BARBERS	70081000	190	185	179	-6	25	19							
TOTALS		190	185	179	-6	25	19							
SUPPLY:														
BARBERING	12.0402									92	1		5	98
TOTALS										92	1		5	98

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: BARBERING CLUSTER CODE 1700

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
330.371-010	BARBER	11	4	2.75	3.35

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: COSMETOLOGY

CLUSTER CODE 1710

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
COSMETOLOGISTS/WM'S HAI	70082001	3722	3610	3526	-84	123	39							
MANICURISTS	70082003	22	21	20	-1	1	0							
SHAMPOOERS	70082006	43	42	41	-1	1	0							
TOTALS		3787	3673	3587	-86	125	39							
SUPPLY:														
COSMETOLOGY	12.0403							16	120	1758	6			1900
TOTALS								16	120	1758	6			1900

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STATEWIDE   IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: COSMETOLOGY   CLUSTER CODE 1710

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
332.271-010	COSMETOLOGIST	544	65	8.37	3.63
332.271-018	HAIR STYLIST	34	5	6.80	3.35

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PERSONAL SERVICES

CLUSTER CODE 1720

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MASSEURS OR MASSEUSES	70080609	11	11	11	0	1	1							
INSTRUCTORS, REDUCING	70080611	278	269	262	-7	14	7							
TOTALS		289	280	273	-7	15	8							
SUPPLY:														
PERSONAL SERVICES, GENERAL	12.0401							17			2			19
TOTALS								17			2			19

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: PERSONAL SERVICES CLUSTER CODE 1720

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
153.227-014	INSTRUCTOR, PHYSICAL	6	4	1.50	3.50

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: BRICK, BLOCK & STONE MASONRY

CLUSTER CODE 1730

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
BRICKLAYERS	50020601	632	639	655	16	19	35							
STONE MASONS	50020602	20	20	20	0	1	1							
PLANERS.STONE	61082407	4	4	4	0	0	0							
STONE POLISHERS	61082413	4	4	4	0	0	0							
TOTALS		660	667	683	16	20	36							
SUPPLY:														
BRICKMASONRY, STONEMASONRY	46.0101J											18		18
BRICK, BLOCK, AND STONEMAS	46.0102							3	12		5	1		21
TOTALS								3	12		5	19		39

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STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: BRICK, BLOCK & STONE MASONRY — CLUSTER CODE 1730

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
861.381-014	BRICKLAYER	9	1	9.00	8.00
861.381-018	BRICKLAYER	140	37	3.78	6.82

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: CARPENTRY

CLUSTER CODE 1750

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CARPENTERS	50020201	6081	6150	6273	123	240	363							
TOTALS		6081	6150	6273	123	240	363							
SUPPLY:														
CARPENTRY	46.0201							198	239		45	14	21	517
CARPENTRY	46.0201J											28		28
TOTALS								198	239		45	42	21	545

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: CARPENTRY CLUSTER CODE 1750

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
860.281-010	CARPENTER, MAINTENANCE	49	12	4.08	4.70
860.381-014	BOATBUILDER APPRENTICE, W	15	3	5.00	4.67
860.381-022	CARPENTER	2429	389	6.24	6.17
860.381-026	CARPENTER APPRENTICE	105	7	15.00	4.37
860.381-042	CARPENTER, ROUGH	570	90	6.33	5.19
860.381-046	FORM BUILDER	8	7	1.14	5.17
860.664-010	CARPENTER 1	31	4	7.75	5.63
869.381-010	HOUSE REPAIRER	5	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: ELECTRICIAN

CLUSTER CODE 1760

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ELECTRICIANS	50021401	4160	4201	4264	63	109	172							
ELECTRIC METER INSTALLE	50082002	78	80	80	0	3	3							
SIGNAL MAINTAINERS	50082802	48	46	45	-1	2	1							
PROTECTIVE SIGNAL INST/	50083220	44	48	49	1	1	2							
TOTALS		4330	4375	4438	63	115	178							
SUPPLY:														
ELECTRICAL AND POWER TRANS	46.0301								21		1			22
ELECTRICIAN	46.0302							29	78		4	111	32	254
TOTALS								29	99		5	111	32	276

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: ELECTRICIAN CLUSTER CODE 1760

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
820.261-018	ELECTRICIAN, SUBSTATION	0	8	0.00	N.A.
822.361-018	PROTECTIVE-SIGNAL INSTALL	9	6	1.50	5.00
824.261-010	ELECTRICIAN	715	121	5.91	8.24
824.261-014	ELECTRICIAN APPRENTICE	66	2	33.00	7.56
824.281-010	AIRPORT ELECTRICIAN	11	6	1.83	11.89
824.281-014	ELECTRIC-DISTRIBUTION CHE	35	11	3.18	5.46
825.281-026	ELECTRICIAN, LOCOMOTIVE	5	0	--	N.A.
829.281-014	ELECTRICAL REPAIRER	182	26	7.00	9.21

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: LINEWORKER

CLUSTER CODE 1770

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
POWER TRANSFORMER REPAI	50081808	13	14	14	0	0	0							
CABLE SPLICERS	50120201	420	437	440	3	4	7							
LINE INSTALLERS, REPAIRE	50120202	2119	2155	2172	17	41	58							
TROUBLE SHOOTERS, POWER	50120203	155	158	158	0	3	3							
GROUND WORKERS, UTILITI	80000608	188	191	192	1	5	6							
TOTALS		2895	2955	2976	21	53	74							
SUPPLY:														
LINEWORKER	46.0303								32		7	7	18	64
TOTALS									32		7	7	18	64

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STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: LINEWORKER — CLUSTER CODE 1770

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
821.361-010	CABLE INSTALLER-REPAIRER	19	0	--	N.A.
821.361-018	LINE ERECTOR	0	5	0.00	3.35
821.361-026	LINE REPAIRER	0	5	0.00	8.00
821.361-038	TOWER ERECTOR	14	0	--	N.A.
822.381-014	LINE INSTALLER-REPAIRER	25	0	--	N.A.
829.361-010	CABLE SPLICER	5	0	--	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: BUILDING MAINTENANCE & CLEAN

CLUSTER CODE 1780

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
STATIONARY ENGINEERS	50144014*	412	412	416	4	18	22							
MAINTENANCE REPAIRERS,G	50144821	10377	10537	10589	52	306	358							
MOBILE HOME REPAIRERS	50144825	100	99	99	0	3	3							
MOBILE HOME SET-UP OPER	61080401	28	28	28	0	1	1							
EXTERMINATORS	61089204	312	347	357	10	10	20							
TERMITE TREATERS	61089210	26	29	29	0	1	1							
TERMITE TREATER HELPERS	61089211	10	11	11	0	0	0							
JANITORS,PORTERS,& CLEA	70020600	27668	28334	28606	272	2352	2624							
ALL OTHER JANITORS,PORT	70020606	226	231	235	4	19	23							
HOUSEKEEPERS,HOTEL & MO	70080616	1244	1260	1267	7	84	91							
TOTALS		40403	41288	41637	349	2794	3143							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
CUSTODIAL SERVICES	20.0604							5			32			37
EXECUTIVE HOUSEKEEPING	20.0605										33			33
BUILDING MAINTENANCE	46.0401							25	87		79	1		192
BUILDING MAINTENANCE	46.0401J											66		66
TOTALS								30	87		144	67		328

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: BUILDING MAINTENANCE & CLEAN CLUSTER CODE 1780

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
321.137-010	HOUSEKEEPER	691	215	3.21	3.70
323.137-010	SUPERVISOR, HOUSECLEANER	8	4	2.00	4.00
323.687-010	CLEANER, HOSPITAL	577	149	3.87	3.81
323.687-014	CLEANER, HOUSEKEEPING	1459	556	2.62	3.48
323.687-018	HOUSECLEANER	294	77	3.82	3.76
381.687-014	CLEANER, COMMERCIAL OR IN	2682	767	3.50	3.80
381.687-018	CLEANER, INDUSTRIAL	385	228	1.69	3.93
381.687-022	CLEANER, LABORATORY EQUIP	13	4	3.25	4.13
382.664-010	JANITOR	2875	715	4.02	3.85
389.684-010	EXTERMINATOR	18	18	1.00	4.62
389.687-014	CLEANER, WINDOW	6	5	1.20	4.30
899.281-014	MAINTENANCE REPAIRER, FAC	384	43	8.93	6.16
899.381-010	MAINTENANCE REPAIRER, BUI	1641	281	5.84	4.67
899.484-010	MOBILE-HOME-LOT UTILITY W	10	1	10.00	4.00
950.382-026	STATIONARY ENGINEER	82	25	3.28	7.30

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: CONCRETE PLACING & FINISHING

CLUSTER CODE 1790

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CEMENT MASONS	50021201	1091	1091	1114	23	28	51							
CONCRETE WALL GRINDER O	50021202	14	13	14	1	0	1							
CONCRETE RUBBERS	50021203	48	50	51	1	1	2							
CONCRETE STONE FINISHER	50021205	3	3	3	0	0	0							
BLOCKMAKING MACHINE OPE	61088038	21	23	23	0	0	0							
CONCRETE STONE FABRICAT	61088040	51	55	55	0	1	1							
FORM SETTERS,METAL ROAD	80000603	61	59	59	0	1	1							
REINFORCING-IRON WORKER	80000610	185	184	190	6	2	8							
TOTALS		1474	1478	1509	31	33	64							
SUPPLY:														
CONCRETE PLACING AND FINIS	46.0402										6			6
TOTALS											6			6

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STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: CONCRETE PLACING & FINISHING — CLUSTER CODE 1790

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
844.364-010	CEMENT MASON	381	85	4.48	7.25
869.664-014	CONSTRUCTION WORKER 1	6056	1126	5.38	4.78

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                                                   02/27/86
                                       IOWA OCCUPATIONAL INFORMATION NETWORK
                                        S U P P L Y - D E M A N D   R E P O R T
STATEWIDE
CLUSTER TITLE:  FLOOR COVERING & INSTALLATIO
                                                                                       CLUSTER CODE 1820
-------------------------------------------------------------------------------------------------------------
   - OCCUPATION/PROGRAM -   CODE     1985  1987  1988  (ESTIMATED '87-'88) PUBLIC PUBLIC PRIVATE JTPA/ APPRE- MILIT-   TOTAL
     T I T L E                       EMPL  EMPL  EMPL  GROWTH REPLAC OPEN  SECOND P. SEC P. SEC  OJT   TICE   ARY
-------------------------------------------------------------------------------------------------------------

        DEMAND DATA:
CEILING TILE INSTALLRS,  50024002    80    81    82      1      1     2
CARPET CUTTERS,CARPET L  50140600   146   147   148      1      3     4
                       ---------------------------------------------------
TOTALS                              226   228   230      2      4     6



        SUPPLY:
FLOOR COVERING INSTALLATIO   46.0405                                     7                    9                   16
                                                               ---------------------------------------------------
TOTALS                                                                   7                    9                   16
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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: FLOOR COVERING & INSTALLATIO CLUSTER CODE 1820

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
860.381-010	ACOUSTICAL CARPENTER	70	9	7.78	5.08
864.381-010	CARPET LAYER	70	13	5.38	4.03

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PAINTING & DECORATING

CLUSTER CODE 1850

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
PAINTERS, MAINTENANCE	50022200	1283	1300	1321	21	60	81							
PAPERHANGERS	50022600	35	35	36	1	2	3							
TOTALS		1318	1335	1357	22	62	84							
SUPPLY:														
PAINTING AND DECORATING	46.0408							16			9	9		34
TOTALS								16			9	9		34

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: PAINTING & DECORATING CLUSTER CODE 1850

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
840.381-010	PAINTER	656	141	4.65	4.90

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: ROOFING

CLUSTER CODE 1870

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ROOFERS	50023600	694	703	721	18	10	28							
TOTALS		694	703	721	18	10	28							
SUPPLY:														
ROOFING	46.0410							1			4	14		19
TOTALS								1			4	14		19

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: ROOFING CLUSTER CODE 1870

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
866.381-010	ROOFER	602	149	4.04	4.73
866.684-010	ROOFER APPLICATOR	8	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: PIPEFITTING & STEAMFITTING

CLUSTER CODE 1880

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PLUMBERS &/OR PIPEFITTE	50023203	3108	3142	3200	58	94	152							
GAS METER INSTALLERS	50082004	36	37	37	0	1	1							
WATER METER INSTALLERS	50082009	39	40	40	0	1	1							
PIPELAYERS	80000609	508	497	499	2	7	9							
TOTALS		3691	3716	3776	60	103	163							
SUPPLY:														
PLUMBING, PIPEFITTING, AND	46.0501							4	22					26
PLUMBING, PIPEFITTING, AND	46.0501J											1		1
PIPEFITTING AND STEAMFITTI	46.0502							10			5	14	2	31
PLUMBING	46.0503							3			8	15	8	34
TOTALS								17	22		13	30	10	92

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: PIPEFITTING & STEAMFITTING — CLUSTER CODE 1880

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
862.381-018	PIPE FITTER	186	56	3.32	9.58
862.381-026	PIPE-FITTER APPRENTICE	7	2	3.50	7.95
862.381-030	PLUMBER	320	57	5.61	6.22
862.381-034	PLUMBER APPRENTICE	25	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: GENERAL CONSTRUCTION TRADES

CLUSTER CODE 1890

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CONSTRUCTION INSPECTORS	20040400	470	481	487	6	27	33							
TERRAZZO WORKERS	50021206	4	4	4	0	0	0							
FLOOR SANDING MACHINE O	50022000	4	4	5	1	0	1							
PLASTERERS	50022801	93	94	97	3	2	5							
STRUCTURAL STEEL WORKER	50023800	728	737	755	18	10	28							
FITTERS, STRUCTURAL META	50023804	111	110	111	1	1	2							
TILE SETTERS	50024001	73	74	75	1	1	2							
SIGN ERECTORS	50083230	46	51	53	2	1	3							
GLAZIERS	50141802	407	411	415	4	15	19							
ASBESTOS & INSULATION W	61080200	233	237	242	5	3	8							
DRY WALL APPLICATORS	61082001	203	205	210	5	2	7							
LATHERS	61082002	40	40	41	1	0	1							
TAPERS	61082003	162	165	169	4	2	6							
FENCE ERECTORS	80000607	21	21	21	0	1	1							
TRENCH SEWER SHAPERS	80000611	6	5	5	0	0	0							
ALL OTHER HELPERS, SKILL	80002823	5095	5117	5171	54	225	279							
TOTALS		7696	7756	7861	105	290	395							
SUPPLY:														
AGRICULTURAL STRUCTURES, E	01.0205										5			5
DRYWALL INSTALLATION	46.0404										2			2
GLAZING	46.0406										2			2
INSULATION INSTALLATION	46.0407										4			4
PLASTERING	46.0409										2		1	3
TERRAZZO INSTALLATION	46.0411										1			1
MISC. CONSTRUCTION TRADES,	46.0499							25				13	26	64
CONSTRUCTION TRADES, OTHER	46.9999							40			1			41
TOTALS								65			17	13	27	122

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: GENERAL CONSTRUCTION TRADES — CLUSTER CODE 1890

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
182.267-010	CONSTRUCTION INSPECTOR	15	2	7.50	8.47
619.686-022	METAL-FABRICATING-SHOP HE	234	5	46.80	5.05
619.687-014	MACHINE HELPER	11	0	--	N.A.
620.684-014	AUTOMOBILE-MECHANIC HELPE	328	26	12.62	3.86
622.684-014	CAR-REPAIRER HELPER	8	0	--	N.A.
630.684-022	PUMP-SERVICER HELPER	16	2	8.00	4.50
637.664-010	ENVIRONMENTAL-CONTROL-SYS	10	3	3.33	10.95
638.684-018	MAINTENANCE-MECHANIC HELP	11	0	--	N.A.
769.687-054	WOODWORKING-SHOP HAND	39	62	0.63	5.49
801.361-014	STRUCTURAL-STEEL WORKER	129	9	14.33	7.11
801.361-018	STRUCTURAL-STEEL-WORKER A	5	1	5.00	10.00
807.687-010	AUTOMOBILE-BODY-REPAIRER	64	4	16.00	4.09
809.281-010	LAY-OUT WORKER 1	6	0	--	N.A.
829.684-022	ELECTRICIAN HELPER	100	21	4.76	4.47
842.361-018	PLASTERER	22	1	22.00	3.35
842.381-010	DRY-WALL APPLICATOR	78	18	4.33	5.45
842.664-010	TAPER	19	6	3.17	4.83
842.681-010	DRY-WALL APPLICATOR	11	3	3.67	4.00
862.684-022	PIPE-FITTER HELPER	7	1	7.00	6.00
869.381-026	SIGN ERECTOR 1	5	3	1.67	5.56
869.684-022	FENCE ERECTOR	15	7	2.14	3.79
869.687-026	CONSTRUCTION WORKER 2	3183	769	4.14	4.93
869.687-030	FURNACE-INSTALLER-AND-REP	41	8	5.13	4.94
899.684-022	MAINTENANCE-REPAIRER HELP	27	3	9.00	5.67
939.364-010	OBSERVER HELPER, SEISMIC	1	6	0.17	3.35

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: COMMUNICATIONS ELECTRONICS

CLUSTER CODE 1300

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
RADIO & TV SERVICERS &	50082600	531	529	527	-2	21	19							
ETCHERS &/OR ENGRAVERS	50100803*	104	109	110	1	4	5							
INSTALLERS, REPAIRERS, SE	50121001	936	978	985	7	12	19							
STATION INSTALLERS	50121003	290	303	305	2	4	6							
CABLE REPAIRERS	50121007	20	21	21	0	1	1							
CABLE INSTALLERS	50121008	99	103	103	0	2	2							
FRAME WIRERS	50121009	27	28	28	0	1	1							
CENTRAL OFFICE REPAIRER	50121010	448	468	472	4	19	23							
TROUBLE LOCATORS, TEST D	50121011	70	74	74	0	3	3							
SHOP REPAIRERS, INSTRUME	50121013	7	7	7	0	0	0							
TELETYPE INSTALLERS	50121014	4	4	4	0	0	0							
TESTERS	50142205*	543	554	560	6	10	16							
TOTALS		3079	3178	3196	18	77	95							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
COMMUNICATION ELECTRONICS	47.0103							98	61		5		74	238
COMMUNICATION ELECTRONICS	47.0103C								11					11
TOTALS								98	72		5		74	249

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: COMMUNICATIONS ELECTRONICS — CLUSTER CODE 1900

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
609.685-014	ENGRAVER, AUTOMATIC	9	18	0.50	6.35
720.281-010	RADIO REPAIRER	5	1	5.00	5.00
720.281-018	TELEVISION-AND-RADIO REPA	34	14	2.43	5.26
726.281-014	ELECTRONICS TESTER 1	35	5	7.00	6.32
726.684-026	ELECTRONICS TESTER 2	7	0	--	N.A.
729.684-058	TESTER, ELECTRICAL CONTIN	5	0	--	N.A.
822.281-018	MAINTENANCE MECHANIC, TEL	5	0	--	N.A.
822.281-022	PRIVATE-BRANCH-EXCHANGE R	10	0	--	N.A.
823.281-010	AVIONICS TECHNICIAN	12	2	6.00	6.75

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: SMALL APPLIANCE REPAIR

CLUSTER CODE 1910

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
GAS & ELEC APPLIANCE RE	50082005	938	947	947	0	45	45							
HOUSEHOLD APPLIANCE INS	50082007	220	221	223	2	10	12							
ELECTRIC TOOL REPAIRERS	50083205	42	46	46	0	2	2							
LAUNDRY MACHINE MECHANI	50083211	31	30	30	0	1	1							
SEWING MACHINE MECHANIC	50083218	60	58	58	0	1	1							
TOTALS		1291	1302	1304	2	59	61							
SUPPLY:														
MAJOR APPLIANCE REPAIR	47.0106										3			3
SMALL APPLIANCE REPAIR	47.0108							1	15	27	5			48
TOTALS								1	15	27	8			51

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: SMALL APPLIANCE REPAIR CLUSTER CODE 1910

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
637.261-018	GAS-APPLIANCE SERVICER	16	0	--	N.A.
723.584-010	APPLIANCE REPAIRER	40	3	13.33	4.33
827.261-010	ELECTRICAL-APPLIANCE SERV	24	20	1.20	5.56
827.464-010	AIR-CONDITIONING INSTALLE	5	1	5.00	7.00

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                                                  IOWA  OCCUPATIONAL  INFORMATION  NETWORK
                                                  S U P P L Y - D E M A N D   R E P O R T
STATEWIDE
CLUSTER TITLE:  MOTOR REPAIR
                                                                                                              CLUSTER CODE 1920
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    - OCCUPATION/PROGRAM -   CODE    1985   1987   1988  (ESTIMATED '87-'88) PUBLIC  PUBLIC  PRIVATE  JTPA/  APPRE- MILIT-   TOTAL
      T I T L E                      EMPL   EMPL   EMPL  GROWTH REPLAC OPEN  SECOND  P. SEC  P. SEC   OJT    TICE    ARY
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          DEMAND DATA:
ELECTRIC MOTOR REPAIRER  50083204     288    280    274    -6      8       2
                              -------------------------------------------------
TOTALS                                288    280    274    -6      8       2



          SUPPLY:
MOTOR REPAIR                 47.0107                                            2                       2                     4
                                                                          -------------------------------------------------------
TOTALS                                                                          2                       2                     4
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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MOTOR REPAIR
CLUSTER CODE 1920

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
721.281-018	ELECTRIC-MOTOR REPAIRER	13	5	2.60	5.89

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: HEATING, A/C & REFRIGERATION

CLUSTER CODE 1930

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
REFRIG MECHANICS,A/C ME	50080200	1092	1101	1121	20	33	53							
TOTALS		1092	1101	1121	20	33	53							
SUPPLY:														
AIR CONDITIONING, HEATING,	15.0501										1			1
AIR CONDITIONING, HEATING,	15.0501C								16					16
AIR POLLUTION CONTROL TECH	15.0502												1	1
HEATING, AIR CONDITIONING,	47.0201							7	69					76
COOLING AND REFRIGERATION	47.0202							9				1	8	18
HEATING AND AIR CONDITIONI	47.0203							2			5		6	13
TOTALS								18	85		6	1	15	125

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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: HEATING, A/C & REFRIGERATION
CLUSTER CODE 1930

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
637.261-010	AIR-CONDITIONING INSTALLE	5	0	--	N.A.
637.261-014	ENVIRONMENTAL-CONTROL-SYS	202	45	4.49	6.32
637.261-026	REFRIGERATION MECHANIC	44	7	6.29	6.49
827.361-014	REFRIGERATION MECHANIC	7	3	2.33	7.00
869.281-010	FURNACE INSTALLER-AND-REP	12	2	6.00	4.50

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: HEAVY EQUIPMENT MECHANICS

CLUSTER CODE 1940

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ENGINEERING EQUIPMT MEC	50081603	580	577	578	1	13	14							
TOTALS		580	577	578	1	13	14							
SUPPLY:														
HEAVY EQUIPMENT MAINTENANC	47.0302							4			6		18	28
MINE EQUIPMENT MAINTENANCE	47.0304										12			12
TOTALS								4			18		18	40

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: HEAVY EQUIPMENT MECHANICS CLUSTER CODE 1940

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
620.261-022	CONSTRUCTION-EQUIPMENT ME	113	20	5.65	6.15
620.281-050	MECHANIC, INDUSTRIAL TRUC	152	25	6.08	6.24
620.281-058	TRACTOR MECHANIC	117	7	16.71	5.44

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: INDUSTRIAL MACHINERY MAINTEN

CLUSTER CODE 1950

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
BOILERMAKERS	50060400	170	168	171	3	2	5							
MILLWRIGHTS	50061600	1017	1048	1065	17	37	54							
MAINTENANCE MECHANICS	50081807	2989	3001	3004	3	72	75							
OILERS	61084000	310	312	311	-1	6	5							
TOTALS		4486	4529	4551	22	117	139							
SUPPLY:														
INDUSTRIAL MACHINERY MAINT	47.0303							3			13	3	4	23
TOTALS								3			13	3	4	23

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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: INDUSTRIAL MACHINERY MAINTEN
CLUSTER CODE 1950

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
620.281-018	AUTOMOTIVE-MAINTENANCE-EQ	14	5	2.80	5.00
626.281-010	MACHINE REPAIRER, MAINTEN	142	14	10.14	8.12
638.281-014	MAINTENANCE MECHANIC	900	105	8.57	7.51
638.281-018	MILLWRIGHT	198	27	7.33	6.83
638.281-022	MILLWRIGHT APPRENTICE	6	0	--	N.A.
699.687-018	OILER	16	0	--	N.A.
805.261-014	BOILERMAKER 1	12	0	--	N.A.
805.361-010	BOILERHOUSE MECHANIC	5	0	--	N.A.
805.381-010	BOILERMAKER 2	6	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: POWER GENERATION

CLUSTER CODE 1960

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
HYDROELECTRIC MACHINE M	50081804	150	152	152	0	4	4							
SWITCHBOARD OPS, GENERAT	50120800	271	276	278	2	7	9							
CONTROL ROOM OPERATORS,	50144002	89	91	91	0	2	2							
DIESEL PLANT OPERATORS	50144003	1	1	1	0	0	0							
AUXILIARY EQUIPMENT OPE	50144004	165	168	168	0	4	4							
STATIONARY ENGINEERS	50144014*	62	62	62	0	3	3							
TURBINE OPERATORS	50144015	27	27	27	0	1	1							
STATIONARY BOILER FIRER	61085602	391	392	393	1	17	18							
TOTALS		1156	1169	1172	3	38	41							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:								
NUCLEAR POWER PLANT OPERAT	41.0202						2	2
NUCLEAR POWER PLANT RADIAT	41.0203						3	3
CONVENTIONAL ELECTRIC POWE	47.0502				2	2	20	24
INDUSTRIAL NUCLEAR ENERGY	47.0503				1			1
TOTALS					3	2	25	30

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: POWER GENERATION — CLUSTER CODE 1960

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
950.382-010	BOILER OPERATOR	58	2	29.00	5.97
950.382-026	STATIONARY ENGINEER	82	25	3.28	7.30

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STATEWIDE
CLUSTER TITLE: UTILITY SERVICES

CLUSTER CODE 1970

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
GAS DISPATCHERS	40065201	23	23	23	0	1	1							
LINE WALKERS	50142209	2	2	2	0	0	0							
PUMP STAT OPERATORS,WAT	50144019	44	46	46	0	2	2							
CONDUIT MECHANICS	50144803	2	2	2	0	0	0							
GAGERS	61003620	19	20	20	0	1	1							
LOADERS,TANK CARS &/OR	80001019	29	26	23	-3	0	-3							
TOTALS		119	119	116	-3	4	1							
SUPPLY:														
PUMPING PLANTS	47.0504										6		6	12
TOTALS											6		6	12

NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: GUNSMITHING

CLUSTER CODE 1980

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	REPLAC	'87-'88) OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
GUNSMITHS	50083208	2	2	2	0	0	0							
TOTALS		2	2	2	0	0	0							
SUPPLY:														
GUNSMITHING	47.0402							1	8				8	17
TOTALS								1	8				8	17

NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: MUSICAL INSTRUMENT REPAIR

CLUSTER CODE 2000

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MUSICAL INSTRUMENTS REP	50144826	86	86	86	0	8	8							
TOTALS		86	86	86	0	8	8							
SUPPLY:														
MUSICAL INSTRUMENT REPAIR	47.0404							1			1			2
TOTALS								1			1			2

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STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: MUSICAL INSTRUMENT REPAIR — CLUSTER CODE 2000

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
730.281-054	WIND-INSTRUMENT REPAIRER	0	6	0.00	N.A.
730.381-042	PERCUSSION-INSTRUMENT REP	0	10	0.00	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: SHOE REPAIR

CLUSTER CODE 2010

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SHOE REPAIRERS	50143602	35	35	35	0	5	5							
TOTALS		35	35	35	0	5	5							
SUPPLY:														
SHOE AND BOOT REPAIR	47.0406										3			3
TOTALS											3			3

NO ANALYSIS

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STATEWIDE
CLUSTER TITLE: WATCH REPAIR

CLUSTER CODE 2020

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
WATCHMAKERS	50142402	93	94	94	0	8	8							
TOTALS		93	94	94	0	8	8							
SUPPLY:														
WATCH REPAIR	47.0408							1						1
TOTALS								1						1

NO ANALYSIS

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STATEWIDE

CLUSTER TITLE: MISCELLANEOUS REPAIR

CLUSTER CODE 2030

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MINE MACHINERY MECHANIC	50081805	3	4	3	-1	0	-1							
KNITTING MACHINE FIXERS	50081811	28	31	31	0	1	1							
CAR REPAIRERS	50082803	297	287	282	-5	7	2							
BICYCLE REPAIRERS	50083202	104	106	106	0	3	3							
CAMERA REPAIRERS	50083203	12	13	12	-1	1	0							
GASOLINE ENGINE,MOWER R	50083207	135	136	137	1	5	6							
LOCKSMITHS	50083212	22	21	21	0	1	1							
COIN MACHINE SERVICERS,	50083215	336	347	350	3	10	13							
PINSETTER MECHANICS,AUT	50083225	115	123	126	3	4	7							
ALL OTHER MECHANICS & R	50083299	2344	2350	2358	8	68	76							
TOTALS		3396	3418	3426	8	100	108							
SUPPLY:														
VENDING AND RECREATIONAL M	47.0109										5	1		6
ELECTROMECHANICAL, HYDRAUL	47.0401										4	7	15	26
LOCKSMITH AND SAFE REPAIR	47.0403										1			1
OPER.,MAINT. & REPAIR OF A	47.0405										1			1
SPORTING GOODS EQUIPMENT R	47.0407										2		3	5
VEHICLE AND MOBILE EQUIPME	47.0601							105	36					141
SMALL ENGINE REPAIR	47.0606							11	48		6		10	75
MECHANICS AND REPAIRERS, O	47.9999							2						2
TOTALS								118	84		19	8	28	257

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: MISCELLANEOUS REPAIR CLUSTER CODE 2030

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
620.684-010	AUTOMOBILE WRECKER	24	2	12.00	4.00
622.381-014	CAR REPAIRER	29	0	--	N.A.
625.281-018	ENGINE REPAIRER, SERVICE	5	1	5.00	10.00
625.281-034	SMALL-ENGINE MECHANIC	148	44	3.36	4.54
638.261-022	PINSETTER MECHANIC, AUTOM	19	2	9.50	3.35
638.281-010	FIRE-FIGHTING-EQUIPMENT S	54	6	9.00	10.35
639.281-014	COIN-MACHINE-SERVICE REPA	13	1	13.00	5.00
729.281-010	AUDIO-VIDEO REPAIRER	5	0	--	N.A.
823.281-018	METEOROLOGICAL-EQUIPMENT	47	4	11.75	6.36
899.281-010	CANAL-EQUIPMENT MECHANIC	26	4	6.50	7.99

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: AIRCRAFT MECHANICS

CLUSTER CODE 2040

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
AIRCRAFT MECHANICS	50080400	334	341	346	5	10	15							
TOTALS		334	341	346	5	10	15							
SUPPLY:														
AIRCRAFT MECHANICS	47.0602							53	59		1		214	327
TOTALS								53	59		1		214	327

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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: AIRCRAFT MECHANICS
CLUSTER CODE 2040

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
621.281-014	AIRFRAME-AND-POWER-PLANT	87	2	43.50	N.A.
862.381-010	AIRCRAFT MECHANIC, PLUMBI	5	0	--	N.A.

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STATEWIDE
CLUSTER TITLE: AUTOMOTIVE REPAIR

CLUSTER CODE 2050

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
AUTOMOTIVE MECHANICS	50081001	9629	9477	9437	-40	294	254							
AUTO REPAIR SERVICE EST	50081003*	23	22	22	0	1	1							
TOTALS		9652	9499	9459	-40	295	255							
SUPPLY:														
AUTOMOTIVE TECHNOLOGY	15.0803							1	4					5
VEHICLE AND MOBILE EQUIPME	47.0601J											21		21
AUTOMOTIVE MECHANIC	47.0604							255	484		62	3	210	1014
VEHICLE MECHANICS SPECIALI	47.0699							34	18		1			53
TOTALS								290	506		63	24	210	1093

* indicates occupation code occurs in other clusters.

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: AUTOMOTIVE REPAIR — CLUSTER CODE 2050

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
620.261-010	AUTOMOBILE MECHANIC	2644	366	7.22	5.11
620.261-012	AUTOMOBILE-MECHANIC APPRE	13	0	--	N.A.
620.261-018	AUTOMOBILE-REPAIR-SERVICE	65	18	3.61	4.71
620.281-010	AIR-CONDITIONING MECHANIC	48	10	4.80	4.15
620.281-038	FRONT-END MECHANIC	5	3	1.67	4.67
620.281-054	MOTORCYCLE REPAIRER	58	9	6.44	4.93
620.281-062	TRANSMISSION MECHANIC	0	5	0.00	4.00
620.281-066	TUNE-UP MECHANIC	9	0	--	N.A.
620.381-010	AUTOMOBILE-RADIATOR MECHA	12	3	4.00	4.23
807.381-022	SERVICE MECHANIC	5	0	--	N.A.

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STATEWIDE

CLUSTER TITLE: AUTOMOTIVE BODY REPAIR

CLUSTER CODE 2060

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
AUTO BODY REPAIRERS	50080800	1574	1523	1502	-21	23	2							
AUTO REPAIR SERVICE EST	50081003*	23	22	22	0	1	1							
GLASS INSTALLERS	50141801	65	63	62	-1	1	0							
PAINTERS, AUTOMOTIVE	61084201	424	409	404	-5	6	1							
TOTALS		2086	2017	1990	-27	31	4							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
AUTOMOTIVE BODY REPAIR	47.0603							33	169		36		6	244
TOTALS								33	169		36		6	244

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: AUTOMOTIVE BODY REPAIR — CLUSTER CODE 2060

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
620.261-018	AUTOMOBILE-REPAIR-SERVICE	65	18	3.61	4.71
620.684-034	USED-CAR RENOVATOR	6	0	--	N.A.
807.361-010	AUTOMOBILE-BODY CUSTOMIZE	5	0	--	N.A.
807.381-010	AUTOMOBILE-BODY REPAIRER	886	160	5.54	5.35
865.684-010	GLASS INSTALLER	14	13	1.08	4.81

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STATEWIDE
CLUSTER TITLE: DIESEL MECHANICS

CLUSTER CODE 2070

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DIESEL MECHANICS	50083222	3033	3027	3023	-4	64	60							
TOTALS		3033	3027	3023	-4	64	60							
SUPPLY:														
DIESEL ENGINE MECHANIC	47.0605							28	111	300	13		1	453
TOTALS								28	111	300	13		1	453

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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: DIESEL MECHANICS
CLUSTER CODE 2070

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
625.281-010	DIESEL MECHANIC	641	116	5.53	6.32

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: ARCHITECTURAL DRAFTING

CLUSTER CODE 2080

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DRAFTERS	10080601*	375	381	384	3	4	7							
COST ESTIMATORS	10243808*	548	551	560	9	10	19							
TOTALS		923	932	944	12	14	26							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
ARCHITECTURAL DRAFTING	48.0102								43		1			44
TOTALS									43		1			44

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: ARCHITECTURAL DRAFTING CLUSTER CODE 2080

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
001.261-010	DRAFTER, ARCHITECTURAL	79	51	1.55	6.15
017.261-030	DRAFTER, DETAIL	5	1	5.00	5.50
160.267-018	ESTIMATOR	45	14	3.21	7.05

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                                  S U P P L Y - D E M A N D   R E P O R T
STATEWIDE
CLUSTER TITLE:  CIVIL/STRUCTURAL DRAFTING
                                                                                    CLUSTER CODE 2090
------------------------------------------------------------------------------------------------------
  - OCCUPATION/PROGRAM -  CODE    1985  1987  1988  (ESTIMATED '87-'88) PUBLIC PUBLIC PRIVATE JTPA/ APPRE- MILIT-  TOTAL
    T I T L E                     EMPL  EMPL  EMPL  GROWTH REPLAC OPEN SECOND P. SEC P. SEC  OJT   TICE   ARY
------------------------------------------------------------------------------------------------------

         DEMAND DATA:
DRAFTERS             10080601*   157   160   161     1      2     3
                          ----------------------------------------
TOTALS                           157   160   161     1      2     3


 * indicates occupation code occurs in other clusters.

         SUPPLY:
CIVIL/STRUCTURAL DRAFTING   48.0103                                 1                           2      3

                                                          ---------------------------------------------
TOTALS                                                              1                           2      3
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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: CIVIL/STRUCTURAL DRAFTING CLUSTER CODE 2090

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
005.281-010	DRAFTER, CIVIL	22	15	1.47	5.13
005.281-014	DRAFTER, STRUCTURAL	8	5	1.60	6.88
017.261-030	DRAFTER, DETAIL	5	1	5.00	5.50

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STATEWIDE
CLUSTER TITLE: DRAFTING, GENERAL

CLUSTER CODE 2100

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DRAFTERS	10080601*	917	931	940	9	10	19							
ESTIMATORS & DRAFTERS,U	10080602	41	41	41	0	0	0							
TOTALS		958	972	981	9	10	19							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
DRAFTING AND DESIGN TECHNO	15.0202										2			2
DRAFTING, GENERAL	48.0101							33	7					40
TOTALS								33	7		2			42

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: DRAFTING, GENERAL — CLUSTER CODE 2100

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
003.281-010	DRAFTER, ELECTRICAL	5	3	1.67	7.00
017.261-014	DESIGN DRAFTER, ELECTROME	1	8	0.13	10.53

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                                      S U P P L Y - D E M A N D   R E P O R T
STATEWIDE
CLUSTER TITLE:  MECHANICAL DRAFTING
                                                                                         CLUSTER CODE 2110
------------------------------------------------------------------------------------------------------------
   - OCCUPATION/PROGRAM -  CODE      1985  1987  1988  (ESTIMATED '87-'88) PUBLIC PUBLIC PRIVATE JTPA/ APPRE- MILIT-  TOTAL
     T I T L E                       EMPL  EMPL  EMPL  GROWTH REPLAC OPEN  SECOND P. SEC P. SEC  OJT   TICE   ARY
------------------------------------------------------------------------------------------------------------

       DEMAND DATA:
DRAFTERS                 10080601*  1049  1066  1075      9     12    21
                         ---------------------------------------------
TOTALS                              1049  1066  1075      9     12    21


 * indicates occupation code occurs in other clusters.

       SUPPLY:
MECHANICAL DRAFTING       48.0105                                          1     37             1                    39

                                                                     -----------------------------------------------
TOTALS                                                                    1     37             1                    39
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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MECHANICAL DRAFTING — CLUSTER CODE 2110

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
007.161-018	ENGINEERING ASSISTANT, ME	35	6	5.83	6.06
007.281-010	DRAFTER, MECHANICAL	296	96	3.08	7.44
017.261-014	DESIGN DRAFTER, ELECTROME	1	8	0.13	10.53

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MISCELLANEOUS CRAFTS

CLUSTER CODE 2120

DEMAND DATA:

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
REFRACTORY MATERIALS RE	50020606	58	61	64	3	2	5							
GLASS BLOWERS	50144805	1	1	1	0	0	0							
MACHINE SETTERS,PAPER G	50144819	73	71	70	-1	2	1							
ALL OTHER SKILLED CRAFT	50144899	4410	4337	4308	-29	113	84							
TOTALS		4542	4470	4443	-27	117	90							

SUPPLY:

NO SUPPLY REPORT

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ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: MISCELLANEOUS CRAFTS CLUSTER CODE 2120

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
509.687-010	BOTTOM MAKER	18	0	--	N.A.
525.687-030	GAMBRELER	5	0	--	N.A.
610.462-010	DROP-HAMMER OPERATOR	17	0	--	N.A.
619.360-014	METAL FABRICATOR	18	0	--	N.A.
763.684-074	TABLE-TOP TILE SETTER	0	16	0.00	3.40
801.261-014	FITTER 1	7	5	1.40	6.79
801.381-014	FITTER	0	5	0.00	3.35
807.281-010	TRUCK-BODY BUILDER	34	7	4.86	6.87
952.382-018	POWER-PLANT OPERATOR	11	0	--	N.A.
970.381-026	PAINTER, SIGN	6	1	6.00	7.00
973.381-018	JOB PRINTER	14	5	2.80	4.56

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: COMMERCIAL ART

CLUSTER CODE 2130

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE-TICE	MILIT-ARY	TOTAL
DEMAND DATA:														
COMMERCIAL ARTISTS	10221601	681	732	743	11	15	26							
PICTURE FRAMERS	50020205	28	29	29	0	1	1							
DECORATORS, HAND	61084202	9	9	10	1	0	1							
SCREEN CUTTERS/MARKERS,	61089014	23	24	24	0	1	1							
TOTALS		741	794	806	12	17	29							
SUPPLY:														
COMMERCIAL ART	48.0203							10	66		2			78
COMMERCIAL ART	48.0203C								15					15
TOTALS								10	81		2			93

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ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: COMMERCIAL ART — CLUSTER CODE 2130

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
141.061-010	CARTOONIST	24	3	8.00	6.15
141.061-018	GRAPHIC DESIGNER	149	16	9.31	5.07
141.061-022	ILLUSTRATOR	183	15	12.20	4.88
970.381-022	PAINTER, HAND	19	2	9.50	5.23

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: GRAPHIC & PRINTING COMMUNICA

CLUSTER CODE 2140

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL.	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ESTIMATORS, PRINTING SER	10243813	40	44	45	1	2	3							
PROOFREADERS, COMPOSED C	40064410	342	368	371	3	25	28							
SETTERS, BINDERY MACHINE	50100202	93	102	104	2	3	5							
BOOKBINDERS, HAND	50100204	82	90	91	1	5	6							
BOOKBINDERS, MACHINE	50100205	502	562	574	12	30	42							
BINDERY WORKERS, ASSEMBL	50100206	709	774	790	16	26	42							
BINDERY WORKERS, STITCHI	50100207	82	88	90	2	3	5							
ALL OTHER BINDERY WORKE	50100208	508	568	579	11	10	21							
COMPOSITORS &/OR TYPESE	50100400	1553	1659	1668	9	55	64							
ELECTROTYPERS	50100601	21	25	25	0	1	1							
STRIPPERS PRINTING	50101001	210	229	234	5	4	9							
CAMERA OPERATORS, PRINTI	50101002	308	329	333	4	6	10							
PHOTOENGRAVERS	50101003	60	65	67	2	1	3							
PRESS OPERATORS, PLATE P	50101201	598	614	615	1	15	16							
OFFSET LITHOGRAPHIC PRE	50101202	1202	1302	1320	18	33	51							
PLATEMAKERS	50101203	154	167	168	1	3	4							
GRAVURE PRESS OPERATORS	50101206	42	49	50	1	1	2							
LETTER PRESS OPERATORS	50101207	708	782	796	14	20	34							
LETTERSET PRESS OPERATO	50101208	13	13	13	0	0	0							
STEEL DIE PRESS OPERATO	50101209	6	6	6	0	0	0							
PROOF PRESS OPERATORS	50101210	4	4	4	0	0	0							
CLOTH PRINTERS	61041011	4	4	4	0	0	0							
PATTERNMAKERS	61041020	20	21	21	0	1	1							
SCREEN/STENCIL PRINTERS	61088401	135	131	131	0	3	3							
SCREEN MAKERS, PHOTOGRAP	61088402	20	21	21	0	0	0							
INK WORKERS	61088616	9	10	11	1	0	1							
PHOTOLETTERING MACHINE	61088621	3	3	3	0	0	0							
DIE MOUNTERS	61089015	9	9	9	0	0	0							
PRINTER-SLOTTER FEEDERS	61089042	46	45	44	-1	1	0							
PRESS ASSISTANTS & FEED	61089095	158	167	168	1	4	5							
COPY MARKERS	61089096	23	23	23	0	1	1							
TOTALS		7664	8274	8378	104	253	357							
SUPPLY:														
GRAPHIC AND PRINTING COMMU	48.0201							81	50					141
COMPOSITION, MAKE-UP, AND	48.0205										7	1	1	9
LITHOGRAPHY, PHOTOGRAPHY,	48.0206										3			3
PRINTING PRESS OPERATIONS	48.0208							4	47		9		1	61
SILK SCREEN MAKING & PRINT	48.0209										2			2
GRAPHICS ARTS TECHNOLOGY	50.0801										1			1
TOTALS								85	107		22	1	2	217

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ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: GRAPHIC & PRINTING COMMUNICA CLUSTER CODE 2140

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
203.582-062	TYPESETTER-PERFORATOR OPE	11	10	1.10	4.52
650.582-022	PHOTOTYPESETTER OPERATOR	6	7	0.86	4.67
651.362-010	CYLINDER-PRESS OPERATOR	38	1	38.00	5.65
651.362-030	WEB-PRESS OPERATOR	6	0	--	N.A.
651.380-010	PRINTER 2	78	19	4.11	4.86
651.482-010	OFFSET-PRESS OPERATOR 1	175	48	3.65	5.11
651.682-014	OFFSET-DUPLICATING-MACHIN	8	3	2.67	4.40
651.685-018	OFFSET-PRESS OPERATOR 2	11	13	0.85	3.61
652.585-010	PHOTOLETTERING-MACHINE OP	6	1	6.00	3.35
652.665-010	SILK-SCREEN PRINTER, MACH	11	0	--	N.A.
653.382-010	FOLDING-MACHINE OPERATOR	5	1	5.00	4.00
653.685-010	BINDERY WORKER	90	17	5.29	3.75
726.687-018	SILK-SCREEN PRINTER	6	1	6.00	5.04
794.687-010	ASSEMBLER, CARDS AND ANNO	0	30	0.00	3.35
973.381-010	COMPOSITOR	9	0	--	N.A.
979.684-034	SCREEN PRINTER	3	5	0.60	4.90

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: UPHOLSTERING

CLUSTER CODE 2150

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
AUTO SEAT COVER,TOP INS	50080600	40	39	38	-1	1	0							
SPRINGERS	50144603	23	25	25	0	1	1							
UPHOLSTERY TRIMMERS	50144604	39	42	42	0	1	1							
UPHOLSTERERS	50144605	172	188	188	0	12	12							
UPHOLSTERY CUTTERS	50144606	84	92	92	0	6	6							
CASKET COVERERS/CASKET	50144607	11	11	11	0	0	0							
MATTRESS MAKERS	50144608	17	19	19	0	0	0							
SORTERS,UPHOLSTERY PART	61060406	33	36	36	0	1	1							
TOTALS		419	452	451	-1	22	21							
SUPPLY:														
UPHOLSTERING	48.0303							6	8		10			24
TOTALS								6	8		10			24

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ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: UPHOLSTERING CLUSTER CODE 2150

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
780.681-010	UPHOLSTERER, INSIDE	0	10	0.00	5.75
915.687-010	AUTOMOBILE-SEAT-COVER INS	26	8	3.25	3.62

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MEATCUTTING

CLUSTER CODE 2160

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
BONERS,MEAT	61083201	1048	1079	1089	10	14	24							
BONERS,POULTRY	61083202	348	356	358	2	9	11							
BUTCHERS,ALL-AROUND	61083204	2144	2208	2231	23	49	72							
FISH CLEANERS,HAND/BUTC	61083207	18	19	18	-1	0	-1							
CASING FINISHERS &/OR S	61086012	173	178	180	2	3	5							
MEAT GRINDERS	61086033	151	154	156	2	5	7							
BUTCHERS &/OR MEAT CUTT	70041400	1737	1783	1794	11	98	109							
TOTALS		5619	5777	5826	49	178	227							
SUPPLY:														
MEATCUTTING	48.0402							12			11			23
TOTALS								12			11			23

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MEATCUTTING — CLUSTER CODE 2160

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
316.684-014	DELI CUTTER-SLICER	17	6	2.83	4.26
316.684-018	MEAT CUTTER	566	54	10.48	4.81
520.685-210	STUFFER	6	0	--	N.A.
525.381-010	BUTCHER APPRENTICE	21	1	21.00	6.75
525.381-014	BUTCHER, ALL-ROUND	204	33	6.18	5.90
525.684-010	BONER, MEAT	926	875	1.06	5.70
525.684-014	BUTCHER, FISH	8	0	--	N.A.
525.684-030	FISH CLEANER	2	6	0.33	3.50
525.687-066	POULTRY BONER	82	240	0.34	3.35

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: SLAUGHTERING & BUTCHERING

CLUSTER CODE 2170

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CARCASS SPLITTERS	61083205	608	625	632	7	8	15							
PUMPERS,MEAT	61086004	84	87	87	0	2	2							
SKIN PEELING MACHINE OP	61086007	39	41	41	0	2	2							
COOLER ROOM WORKERS,MEA	61089009	604	622	628	6	19	25							
POULTRY DRESSERS,EVISCE	61089040	277	283	284	1	7	8							
SKINNERS,ANIMAL	61089058	245	252	253	1	3	4							
SMOKERS	61089060	91	94	95	1	2	3							
TOTALS		1948	2004	2020	16	43	59							
SUPPLY:														
SLAUGHTERING AND BUTCHERIN	48.0403										40			40
TOTALS											40			40

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IOWA OCCUPATIONAL INFORMATION NETWORK

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: SLAUGHTERING & BUTCHERING CLUSTER CODE 2170

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
525.684-046	SKINNER	6	4	1.50	5.50
525.687-022	COOLER ROOM WORKER	7	4	1.75	4.36
525.687-070	POULTRY DRESSER	49	11	4.45	5.12
525.687-082	POULTRY-DRESSING WORKER	14	0	--	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MISC FOOD PROCESSING

CLUSTER CODE 2180

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
PICKLERS,FOOD	61086001	143	147	149	2	3	5							
PRESS OPERATORS,MEAT	61086003	124	127	128	1	4	5							
DRY CURERS	61086011	189	194	196	2	6	8							
FLAVOR ROOM WORKERS,FRE	61086021	22	23	23	0	1	1							
RETORT OPERATORS	61086204	52	53	53	0	2	2							
PRESSERS,EXPELLER OPERA	61086223	30	30	30	0	1	1							
FERMENTATION OPERATORS	61086290	24	24	24	0	1	1							
CHEESEMAKER HELPERS	61089007	204	210	208	-2	5	3							
DEHAIRING MACHINE OPERA	61089013	59	60	61	1	1	2							
INGREDIENT SCALERS	61089029	24	24	24	0	1	1							
SHACTORS	61089050	16	17	17	0	0	0							
SPLITTING MACHINE FEEDE	61089061	3	4	4	0	0	0							
STICKERS	61089065	53	54	55	1	1	2							
STUNNERS	61089069	73	76	76	0	2	2							
ENROBING MACH OPS/MACHI	61089085	21	22	20	-2	0	-2							
RAW CHEESE WORKERS	80002828	26	26	26	0	1	1							
TOTALS		1063	1091	1094	3	29	32							

SUPPLY:

NO SUPPLY REPORT

NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: FOUNDRY WORK

CLUSTER CODE 2190

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
HAMMERSMITHS, OPEN DIE	50060803	51	52	52	0	2	2							
SETTERS, MOLDING & COREM	50061005	12	13	13	0	0	0							
MOLDERS, BENCH &/OR FLOO	50061804	126	136	139	3	3	6							
MOLDERS, MACHINE (METAL)	50061805	250	268	273	5	3	8							
SHELL MOLD/SH CORE MACH	50061808	30	34	35	1	0	1							
GUIDE SETTERS	50062404	4	4	4	0	0	0							
MANIPULATORS, TABLE/BED	50062407	7	8	8	0	0	0							
ROLLING MILL OPS/ATTEND	50062415	86	97	101	4	2	6							
ROLLING MILL OPERATOR H	50062416	57	66	67	1	3	4							
INSPECTORS	50142202*	202	206	208	2	6	8							
TAPPERS, METAL	61020401	1	1	1	0	0	0							
CASTERS, FINISHED OR SEM	61020404	9	10	11	1	0	1							
CASTERS, INGOTS & PIGS	61020405	32	36	37	1	0	1							
CENTRIFUGAL-CASTING MAC	61020406	8	9	10	1	0	1							
STOVE TNDRS &/OR BL FUR	61020407	4	5	5	0	0	0							
STEEL POURER HELPERS	61020430	4	5	5	0	0	0							
POURERS, METAL	61020435	224	241	248	7	5	12							
FURNACE OPERATORS, CUPOL	61020436	178	188	192	4	5	9							
FURNACE CHARGERS	61020438	14	16	16	0	0	0							
HEATING PIT CHARGERS	61020439	4	4	4	0	0	0							
HEATERS, METAL	61020800	39	42	44	2	1	3							
MIXER OPERATORS, HOT MET	61083831	6	7	7	0	0	0							
MIXERS, ORE & METALS	61083857	3	3	3	0	0	0							
ROLL BUILDERS	61088210	6	7	7	0	0	0							
SLAB DEPILER OPERATORS	61088213	10	11	12	1	0	1							
POT TENDERS	61088236	1	2	2	0	0	0							
COREMAKERS, MACHINE	61088274	163	174	180	6	2	8							
EXTRUSION PRESS OPS, HOT	61088276	1	1	1	0	0	0							
BRIQETTING MACH OPERATO	61088277	3	3	3	0	0	0							
PICKLERS, CONTINOUS PICK	61088282	11	12	13	1	0	1							
DIE-CASTING MACH OPS, SE	61088287	185	196	199	3	3	6							
COREMAKERS, HAND, BENCH, F	61088403	207	214	221	7	5	12							
MOLD CLOSERS, CORE SET	61088813	17	19	19	0	0	0							
MILL HANDS, PLATE MILL	61088826	7	8	8	0	0	0							
POT LINERS	61088835	1	1	1	0	0	0							
CORE ASSEMBLERS, PASTERS	61088854	37	42	43	1	1	2							
SAND CUTTERS, MIXERS, SLI	80002801	61	63	66	3	1	4							
SHAKEOUT WORKERS, FOUNDR	80002813	154	167	171	4	4	8							
FURNACE OP HELPERS/HEAT	80002819	47	52	53	1	2	3							
TOTALS		2262	2423	2482	59	48	107							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
FOUNDRY WORK	48.0502										18		1	19
TOTALS											18		1	19

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: FOUNDRY WORK — CLUSTER CODE 2190

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
514.687-010	CASTING INSPECTOR	5	0	--	N.A.
518.361-010	MOLDER	27	2	13.50	8.51
518.381-014	COREMAKER	21	0	--	N.A.
518.682-010	MACHINE MOLDER	5	2	2.50	6.00
519.687-022	FOUNDRY WORKER, GENERAL	499	111	4.50	7.84

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PRECISION METAL WORK

CLUSTER CODE 2200

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
TOOL PROGRAMMERS,NUMERI	10141200	161	165	166	1	0	1							
HEAT TREATERS,ANNEALERS	50060600	389	396	405	9	11	20							
FORGING PRESS OPERATORS	50060802	27	27	28	1	0	1							
HEADER OPERATORS	50060804	58	62	62	0	0	0							
MACHINE TOOL SETTERS,ME	50061003	580	588	594	6	11	17							
PUNCH PRESS SETTERS,MET	50061007	252	256	259	3	5	8							
LAYOUT MARKERS,METAL	50061202	105	109	112	3	5	8							
MACHINISTS	50061206	2118	2131	2128	-3	40	37							
FORGING/STRAIGHTENING R	50062403	16	18	18	0	0	0							
INSPECTORS	50142202*	1322	1347	1358	11	42	53							
TESTERS	50142205*	149	152	154	2	3	5							
DRILL PRESS/BORING MACH	61020201	2093	2103	2131	28	29	57							
GRINDING/ABRADING MACH	61020600	1333	1332	1338	6	24	30							
LATHE OPERATORS,GRINDIN	61021004	6	6	6	0	0	0							
LATHE MACH OPERATORS,ME	61021006	2528	2542	2566	24	51	75							
MILLING/PLANING MACHINE	61021007	798	804	812	8	10	18							
GEAR CUT,GRIND,SHAPE MA	61021011	437	422	424	2	8	10							
MACHINE TOOL OPERATORS,	61021402	1531	1520	1523	3	29	32							
MACHINE TOOL OPERATORS,	61021403	954	957	964	7	20	27							
MACHINE TOOL OPERATORS,	61021405	514	515	523	8	9	17							
PUNCH PRESS OPERATORS,M	61021609	1949	1963	1983	20	37	57							
FILERS,GRINDERS,BUFFERS	61082401	1311	1345	1364	19	24	43							
SAWYERS,METAL	61085013	205	210	214	4	4	8							
DRAW-BENCH OPERATORS,TU	61088267	3	3	3	0	0	0							
WIRE DRAWERS	61088850	19	21	21	0	0	0							
TOTALS		18858	18994	19156	162	362	524							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
PRECISION METAL WORK, GENE	48.0501							1						1
PRECISION METAL WORK, GENE	48.0501J											11		11
MACHINE TOOL OPERATION/MAC	48.0503							137	179	12	35	14	6	383
PRECISION METAL WORK, OTHE	48.0599							33	13					46
TOTALS								171	192	12	35	25	6	441

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: PRECISION METAL WORK — CLUSTER CODE 2200

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
007.167-018	TOOL PROGRAMER, NUMERICAL	47	9	5.22	7.99
504.382-014	HEAT TREATER 1	26	1	26.00	5.00
504.682-018	HEAT TREATER 2	7	0	--	N.A.
600.280-022	MACHINIST	1188	105	11.31	7.39
600.280-026	MACHINIST APPRENTICE	11	1	11.00	5.00
600.280-034	MACHINIST, AUTOMOTIVE	6	0	--	N.A.
600.280-042	MAINTENANCE MACHINIST	91	9	10.11	5.37
600.380-018	MACHINE SET-UP OPERATOR	271	22	12.32	5.02
601.280-054	TOOL-MACHINE SET-UP OPERA	17	3	5.67	8.51
603.280-010	GRINDER OPERATOR, EXTERNA	11	0	--	N.A.
603.280-018	GRINDER OPERATOR, TOOL	9	0	--	N.A.
603.280-038	TOOL-GRINDER OPERATOR	19	2	9.50	7.00
603.664-010	TOOL GRINDER 2	5	1	5.00	5.50
603.685-062	GRINDER OPERATOR, PRODUCT	88	1	88.00	8.04
604.362-010	LATHE OPERATOR, NUMERICAL	36	12	3.00	7.58
604.380-022	SCREW-MACHINE SET-UP OPER	3	5	0.60	3.35
604.380-026	TURRET-LATHE SET-UP OPERA	14	2	7.00	9.26
604.682-014	THREADING-MACHINE OPERATO	12	1	12.00	8.03
604.685-026	LATHE OPERATOR, PRODUCTIO	95	19	5.00	6.47
605.280-010	MILLING-MACHINE SET-UP OP	29	6	4.83	8.54
605.282-010	MILLING-MACHINE SET-UP OP	5	1	5.00	7.92
605.682-014	BROACHING-MACHINE OPERATO	7	0	--	N.A.
605.685-030	MILLING-MACHINE OPERATOR,	9	0	--	N.A.
606.380-010	DRILL-PRESS SET-UP OPERAT	45	3	15.00	6.79
606.380-014	DRILL-PRESS SET-UP OPERAT	55	0	--	N.A.
606.682-014	DRILL-PRESS OPERATOR	101	3	33.67	6.03
606.682-018	DRILL-PRESS SET-UP OPERAT	13	0	--	N.A.
606.685-026	DRILL-PRESS OPERATOR, PRO	60	1	60.00	4.45
606.685-030	DRILLING-MACHINE OPERATOR	7	0	--	N.A.
607.682-010	CUT-OFF-SAW OPERATOR, MET	22	0	--	N.A.
609.361-010	INSPECTOR, FLOOR	19	1	19.00	13.40
609.662-010	NUMERICAL-CONTROL-MACHINE	90	17	5.29	6.61
609.682-022	MACHINE OPERATOR, CENTRIF	5	0	--	N.A.
609.684-010	INSPECTOR, GENERAL	191	21	9.10	8.28
609.685-018	PRODUCTION-MACHINE TENDER	1932	167	11.57	6.12
615.482-022	PUNCH-PRESS OPERATOR 1	163	26	6.27	3.94
615.482-026	PUNCH-PRESS OPERATOR, AUT	63	0	--	N.A.
615.682-014	PUNCH-PRESS OPERATOR 3	5	0	--	N.A.
615.685-030	PUNCH-PRESS OPERATOR 2	167	4	41.75	5.00
616.260-018	SPRING COILING MACHINE SE	38	0	--	N.A.
616.360-022	MACHINE SETTER	5	0	--	N.A.
617.685-026	POWER-PRESS TENDER	5	0	--	N.A.
619.261-010	INSPECTOR, METAL FABRICAT	57	5	11.40	7.55
624.361-010	INSPECTOR AND TESTER	16	0	--	N.A.
705.684-010	BENCH GRINDER	6	0	--	N.A.

CLUSTER TITLE: PRECISION METAL WORK CLUSTER CODE 2200

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
705.684-026	GRINDER 1	25	2	12.50	4.38
705.684-030	GRINDER-CHIPPER 1	95	3	31.67	4.92
705.687-014	LABORER, GRINDING AND POL	2564	120	21.37	6.63
705.687-018	METAL SANDER AND FINISHER	13	0	--	N.A.
706.687-014	CLUTCH INSPECTOR	48	10	4.80	3.40
801.381-018	MAJOR-ASSEMBLY INSPECTOR	5	0	--	N.A.
809.684-026	GRINDER-CHIPPER 2	55	2	27.50	6.29

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STATEWIDE
CLUSTER TITLE: TOOL & DIE MAKING

CLUSTER CODE 2210

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DIE SETTERS	50061002	67	67	68	1	0	1							
TOOL & DIE MAKERS	50063001	1480	1492	1504	12	39	51							
DIE SINKERS	50063003	9	9	9	0	0	0							
DIE POLISHERS, WIRE &/OR	61082403	1	1	1	0	0	0							
TOTALS		1557	1569	1582	13	39	52							
SUPPLY:														
TOOL AND DIE MAKING	48.0507							4	44		3	43		94
TOTALS								4	44		3	43		94

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: TOOL & DIE MAKING CLUSTER CODE 2210

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
600.280-010	INSTRUMENT MAKER	6	0	--	N.A.
600.280-018	INSTRUMENT-MAKER APPRENTI	5	0	--	N.A.
601.280-030	MOLD MAKER, DIE-CASTING A	6	0	--	N.A.
601.280-042	TOOL MAKER	17	1	17.00	8.00
601.280-046	TOOL-AND-DIE MAKER	166	19	8.74	9.14
601.280-058	TOOL-MAKER APPRENTICE	6	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: METAL PATTERNMAKING

CLUSTER CODE 2220

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MOLDERS, PATTERN	50061806	23	26	27	1	1	2							
PATTERNMAKERS, METAL	50062203	129	127	130	3	2	5							
TOTALS		152	153	157	4	3	7							
SUPPLY:														
METAL PATTERNMAKING	48.0505							1			1			2
TOTALS								1			1			2

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: METAL PATTERNMAKING CLUSTER CODE 2220

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
600.280-050	PATTERNMAKER, METAL	10	0	--	N.A.

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: SHEET METAL

CLUSTER CODE 2230

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SHEAR &/OR SLITTER SETT	50061008	129	130	131	1	2	3							
SHEET METAL WORKERS	50062600	1799	1803	1835	32	36	68							
POWER BRAKE,BENDING MAC	61021611	940	943	953	10	18	28							
SHEAR &/OR SLITTER OPER	61081459	440	457	466	9	9	18							
STRETCHER-LEVELER OPERA	61088261	21	23	24	1	0	1							
TOTALS		3329	3356	3409	53	65	118							
SUPPLY:														
SHEET METAL, GENERAL	48.0506							8			11	33		52
TOTALS								8			11	33		52

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STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: SHEET METAL — CLUSTER CODE 2230

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
615.482-034	SHEAR OPERATOR 1	92	4	23.00	5.01
615.685-034	SHEAR OPERATOR 2	12	0	--	N.A.
616.360-018	MACHINE OPERATOR 1	1713	175	9.79	5.29
617.260-010	PRESS OPERATOR, HEAVY DUT	85	2	42.50	4.17
617.360-010	BRAKE OPERATOR 1	56	4	14.00	7.60
619.685-062	MACHINE OPERATOR 2	324	14	23.14	5.79
804.281-010	SHEET-METAL WORKER	168	34	4.94	4.68

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: METAL FABRICATION

CLUSTER CODE 2240

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
METAL FABRICATORS	50023801	550	552	563	11	7	18							
ETCHERS &/OR ENGRAVERS	50100803*	56	58	59	1	2	3							
ELECTROPLATERS	61021201	119	121	122	1	2	3							
DIP PLATERS, NONELECTROL	61021202	106	108	109	1	1	2							
SPRING MACHINE OPERATOR	61080413	1	1	1	0	0	0							
RIVETERS, LIGHT	61084606	231	233	236	3	4	7							
AUTOMAT SPRING COILING	61085811	1	1	1	0	0	0							
CAGE MAKERS, HAND OR MAC	61088035	14	15	15	0	0	0							
COILERS, WINDERS, &/OR SP	61088229	18	20	21	1	0	1							
ROLL FORMING MACH OPERA	61088286	43	43	44	1	1	2							
MULTI-SLIDE MACHINE OPE	61088291	8	8	8	0	0	0							
BODYMAKER OPERATORS, TIN	61088292	38	39	39	0	1	1							
WIRE WEAVERS	61088293	1	1	1	0	0	0							
TOTALS		1186	1200	1219	19	18	37							

* indicates occupation code occurs in other clusters.

SUPPLY:														
METAL FABRICATION	48.0504										53			53
TOTALS											53			53

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: METAL FABRICATION CLUSTER CODE 2240

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
500.380-010	PLATER	25	4	6.25	7.51
609.685-014	ENGRAVER, AUTOMATIC	9	18	0.50	6.35
616.360-010	BODY-MAKER-MACHINE SETTER	5	0	--	N.A.
699.482-010	RIVETING-MACHINE OPERATOR	5	0	--	N.A.
780.684-014	BAND-TOP MAKER	27	44	0.61	7.75

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PLASTICS

CLUSTER CODE 2250

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
SETTERS,PLASTIC MOLDING	50061009	124	129	130	1	2	3							
PATTERNMAKERS,PLASTICS	50062202	20	20	20	0	1	1							
ASSEMBLERS	61080419*	94	98	99	1	2	3							
HEAT SEALERS	61087608	185	196	197	1	4	5							
EXTRUDER OPS,RUBBER OR	61087623	396	407	405	-2	5	3							
EXTRUDER OP HELPERS,RUB	61087624	300	296	291	-5	13	8							
BLOW MOLDING MACHINE OP	61087631	145	154	155	1	2	3							
CALENDER OPS,RUBBER OR	61087633	28	26	26	0	0	0							
ROTATION MOLDING MACH O	61087635	20	21	21	0	0	0							
PILLING MACHINE OPERATO	61087640	15	15	15	0	0	0							
COMPR &/OR INJECT MOLD	61087645	774	807	809	2	10	12							
LAMINATORS,PREFORMS	61088415	77	80	82	2	2	4							
PRESS OPERATORS,PLASTIC	61088416	34	35	35	0	1	1							
BAGGERS,PLASTICS	61088424	1	1	1	0	0	0							
FABRICATORS,PLASTICS	61088817	54	55	55	0	1	1							
PLASTICS REPAIRERS	61089044	23	24	24	0	1	1							
TOTALS		2290	2364	2365	1	44	45							

* indicates occupation code occurs in other clusters.

SUPPLY:														
PLASTICS	48.0604							1			43			44
TOTALS								1			43			44

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: PLASTICS — CLUSTER CODE 2250

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
556.382-014	INJECTION-MOLDING-MACHINE	89	57	1.56	3.80
556.685-038	INJECTION-MOLDING-MACHINE	25	8	3.13	3.70
557.382-010	EXTRUDER OPERATOR	22	0	--	N.A.
557.564-010	EXTRUDER-OPERATOR HELPER	0	5	0.00	7.70
690.662-014	TUBER-MACHINE OPERATOR	1	8	0.13	5.60
690.682-058	PLANISHING-PRESS OPERATOR	1	9	0.11	9.41
690.682-062	PRESS OPERATOR	5	0	--	N.A.
706.687-010	ASSEMBLER, PRODUCTION	6975	873	7.99	4.77
731.687-034	TOY ASSEMBLER	6	0	--	N.A.
739.687-030	ASSEMBLER, SMALL PRODUCTS	673	1291	0.52	3.40
754.684-010	ASSEMBLER	11	3	3.67	7.10

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: JEWELRY WORK

CLUSTER CODE 2260

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
METAL MOLD MAKERS	50061801	10	10	10	0	0	0							
JEWELERS &/OR SILVERSMI	50142401	160	162	161	-1	4	3							
STONE SETTERS	50142410	2	2	2	0	0	0							
WAX PATTERN WORKERS	61088849	1	1	1	0	0	0							
TOTALS		173	175	174	-1	4	3							
SUPPLY:														
JEWELRY DESIGN, FABRICATIO	48.0602										4			4
TOTALS											4			4

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: JEWELRY WORK
CLUSTER CODE 2260

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
700.281-010	JEWELER	12	3	4.00	5.00
700.381-014	FANCY-WIRE DRAWER	0	7	0.00	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: WOODWORKING

CLUSTER CODE 2270

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PATTERNMAKERS, WOOD	50062204	86	89	91	2	4	6							
CABINETMAKERS	50140400	324	340	342	2	28	30							
FURNITURE FINISHERS	50141400	86	86	86	0	5	5							
MACHINE SETTERS, WOODWOR	50144808	115	124	124	0	5	5							
CRATERS	50144828	1	1	1	0	0	0							
VENEER LATHE OPERATORS	61021001	3	3	3	0	0	0							
LATHE OPERATORS, WOOD	61021005	1	1	1	0	0	0							
SHAPER &/OR ROUTER OPER	61021009	5	5	5	0	0	0							
BORING MACHINE OPERATOR	61021401	5	5	5	0	0	0							
WOOD MACHINISTS	61021404	156	164	164	0	14	14							
ASSEMBLERS	61080419*	735	766	772	6	15	21							
AUTOMATIC CLIPPERS, VENE	61081407	12	13	13	0	0	0							
CORNER CUTTERS	61081409	13	13	13	0	0	0							
MORTISING MACHINE OPERA	61081430	1	1	1	0	0	0							
RIP & GROOVE MACHINE OP	61081434	1	1	1	0	0	0							
TENONER OPERATORS	61081452	43	47	47	0	2	2							
SANDERS, WOOD	61082410	116	125	125	0	5	5							
SAW FILERS	61082411	7	8	8	0	0	0							
VENEER SANDERS	61082415	16	17	17	0	1	1							
RUBBERS	61084208	17	19	19	0	1	1							
BAND SCROLL SAW OPERATO	61085001	14	16	16	0	1	1							
CUT-OFF SAW OPERATORS, L	61085003	71	76	76	0	3	3							
RIPSAW OPERATORS	61085012	65	68	69	1	3	4							
TRIM SAW OPERATORS	61085017	146	159	159	0	7	7							
VARIETY SAW OPERATORS	61085018	36	37	37	0	2	2							
DADO OPERATORS	61086812	2	2	2	0	0	0							
WOODWORKING MACHINE OPE	61086818	163	170	170	0	5	5							
LAMINATING MACH OPERATO	61086819	4	4	4	0	0	0							
SHAPERS, HAND	61088841	5	5	5	0	0	0							
LAYOUT MARKERS, WOOD	61088852	7	7	7	0	0	0							
FURNITURE ASSEMBLERS &	62000802	67	67	67	0	2	2							
TOTALS		2323	2439	2450	11	103	114							

* indicates occupation code occurs in other clusters.

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
SUPPLY:														
WOODWORKING, GENERAL	48.0701							3			3			6
FURNITURE MAKING	48.0702										14			14
MILLWORK AND CABINET MAKIN	48.0703							24			8			32
TOTALS								27			25			52

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IOWA OCCUPATIONAL INFORMATION NETWORK

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: WOODWORKING CLUSTER CODE 2270

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
660.280-010	CABINETMAKER	43	20	2.15	5.33
661.281-022	PATTERNMAKER, WOOD	1	11	0.09	7.00
662.685-034	SPEED-BELT-SANDER TENDER	0	7	0.00	3.50
667.682-010	BAND-SCROLL-SAW OPERATOR	6	0	--	N.A.
667.682-022	CUT-OFF-SAW OPERATOR	12	0	--	N.A.
669.380-014	MACHINIST, WOOD	18	3	6.00	3.73
706.687-010	ASSEMBLER, PRODUCTION	6975	873	7.99	4.77
731.687-034	TOY ASSEMBLER	6	0	--	N.A.
739.687-030	ASSEMBLER, SMALL PRODUCTS	673	1291	0.52	3.40
761.687-010	SANDER, HAND	15	0	--	N.A.
763.381-010	FURNITURE FINISHER	10	1	10.00	5.25
763.684-038	FURNITURE ASSEMBLER	10	0	--	N.A.
769.684-010	BASKET ASSEMBLER 2	10	8	1.25	3.35

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: WELDING

CLUSTER CODE 2280

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
WELDERS & FLAMECUTTERS	61022002	6517	6468	6494	26	103	129							
TOTALS		6517	6468	6494	26	103	129							
SUPPLY:														
WELDING, BRAZING, AND SOLD	48.0508							145	221		30		7	403
TOTALS								145	221		30		7	403

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: WELDING CLUSTER CODE 2280

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
810.382-010	WELDING-MACHINE OPERATOR,	5	1	5.00	10.71
810.384-010	WELDER APPRENTICE, ARC	147	11	13.36	5.51
810.384-014	WELDER, ARC	1533	146	10.50	6.23
810.684-010	WELDER, TACK	48	2	24.00	4.65
811.684-014	WELDER, GAS	23	8	2.88	5.88
812.682-010	WELDING-MACHINE OPERATOR,	17	0	--	N.A.
813.684-022	SOLDERER, PRODUCTION LINE	6	0	--	N.A.
816.464-010	THERMAL CUTTER, HAND 1	20	3	6.67	4.67
816.482-010	THERMAL-CUTTING-MACHINE O	29	3	9.67	6.67
819.361-010	WELDER-FITTER	20	6	3.33	4.58
819.381-010	WELDER-ASSEMBLER	8	6	1.33	6.28
819.384-010	WELDER, COMBINATION	1051	107	9.82	6.11
819.684-010	WELDER, PRODUCTION LINE	856	47	18.21	5.61

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: CONSTRUCTION EQUIP OPERATION

CLUSTER CODE 2290

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
HEAVY EQUIPMENT OPERATO	50021807	6475	6434	6464	30	232	262							
CRANE, DERRICK, & HOIST D	50140801	1045	1073	1086	13	34	47							
ROTARY DRILL OPERATORS	61081808	2	2	2	0	0	0							
TOTALS		7522	7509	7552	43	266	309							
SUPPLY:														
CONSTRUCTION EQUIPMENT OPE	49.0202							3	7		9	6	40	65
TOTALS								3	7		9	6	40	65

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: CONSTRUCTION EQUIP OPERATION CLUSTER CODE 2290

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
850.683-010	BULLDOZER OPERATOR 1	140	9	15.56	4.28
850.683-018	DRAGLINE OPERATOR	5	0	--	N.A.
850.683-030	POWER-SHOVEL OPERATOR	109	24	4.54	6.26
850.683-046	UTILITY-TRACTOR OPERATOR	5	0	--	N.A.
853.663-010	ASPHALT-PAVING-MACHINE OP	6	0	--	N.A.
859.683-010	OPERATING ENGINEER	1217	83	14.66	6.54
859.683-014	OPERATING-ENGINEER APPREN	28	1	28.00	5.00
921.663-010	BRIDGE-OR-GANTRY-CRANE OP	78	2	39.00	4.50
921.663-022	DERRICK OPERATOR	24	0	--	N.A.
921.663-042	MONORAIL CRANE OPERATOR	5	0	--	N.A.
921.683-010	BOAT-HOIST OPERATOR	26	2	13.00	5.00
921.683-030	CUPOLA HOIST OPERATOR	10	0	--	N.A.
921.685-010	BOAT LOADER 2	23	0	--	N.A.
929.683-010	LOGGING-TRACTOR OPERATOR	2	6	0.33	3.35

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STATEWIDE
CLUSTER TITLE: MATERIAL HANDLING

CLUSTER CODE 2300

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
FREIGHT HANDLERS	40063401	10	9	9	0	0	0							
GRAIN RECEIVERS	61086241	98	100	98	-2	3	1							
LOADERS,MALT HOUSE	61086264	17	18	17	-1	0	-1							
INDUSTRIAL TRUCK OPERAT	62001001	5243	5312	5335	23	96	119							
ELEVATOR OPERATORS	70081800	4	4	5	1	0	1							
CONVEYOR OPERATORS OR T	80001020*	681	695	697	2	13	15							
WORK DISTRIBUTORS	80001023	11	10	10	0	0	0							
TOTALS		6064	6148	6171	23	112	135							

* indicates occupation code occurs in other clusters.

SUPPLY:														
MATERIAL HANDLING	49.0203							13			25		11	49
TOTALS								13			25		11	49

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MATERIAL HANDLING — CLUSTER CODE 2300

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
222.687-022	ROUTING CLERK	6	0	--	N.A.
388.663-010	ELEVATOR OPERATOR	5	1	5.00	3.35
921.682-014	PALLETIZER OPERATOR 1	5	0	--	N.A.
921.683-026	CONVEYOR OPERATOR	27	6	4.50	4.00
921.683-050	INDUSTRIAL-TRUCK OPERATOR	1764	92	19.17	4.59
921.685-026	CONVEYOR TENDER	9	0	--	N.A.
921.685-050	PRODUCTION-SUPPLY-EQUIPME	9	40	0.22	5.89
929.583-010	YARD WORKER	18	0	--	N.A.
929.687-030	MATERIAL HANDLER	11540	2521	4.58	4.57

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: MINING & HEAVY EQUIP OPER

CLUSTER CODE 2310

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ROOF BOLTERS	50020202	1	1	1	0	0	0							
CONCRETE MIXER OPERATOR	50021802	47	47	48	1	2	3							
FINE-GRADERS	50021805	13	12	12	0	0	0							
BATCH PLANT OPERATORS	50021809	111	121	121	0	4	4							
BALLAST CLEAN MACH OPER	50021810	30	29	29	0	1	1							
ELEVATOR INSTALLERS/REP	50081801	33	34	35	1	1	2							
BLASTERS,MINING & QUARR	61080601	13	13	13	0	0	0							
DRILLERS,HAND	61081803	12	12	12	0	0	0							
COAL WASHERS	61083610	4	4	4	0	0	0							
DRIER OPERATORS,COAL OR	61083618	5	5	5	0	0	0							
LOADING MACHINE OPERATO	61083622	137	145	137	-8	4	-4							
TIPPLE OPERATORS	61083637	4	4	4	0	0	0							
PANELBD OPERATORS,GRIND	61083643	27	29	29	0	1	1							
MILL &/OR GRINDER OPS,M	61083646	117	123	120	-3	4	1							
ASPHALT BLENDERS	61083804	6	6	6	0	0	0							
ASPHALT MIXERING MACH T	61083805	17	15	15	0	0	0							
ASPHALT-PLANT OPERATORS	61083806	36	35	35	0	1	1							
COMPOUNDERS	61083818	6	7	7	0	0	0							
SAWYERS,STONE	61085014	4	4	4	0	0	0							
ASPHALT-PLANT DRIER OPE	61087408	3	2	2	0	0	0							
DUMP OPERATORS	62001201	3	3	3	0	0	0							
DINKEY OPERATORS	62001202	1	1	1	0	0	0							
AIR HAMMER OPERATORS	80000601	78	72	72	0	2	2							
HIGHWAY MAINTENANCE WOR	80000628	1356	1397	1417	20	42	62							
ASPHALT RAKERS	80000629	150	140	141	1	4	5							
TOTALS		2214	2261	2273	12	66	78							
SUPPLY:														
MINING EQUIPMENT OPERATION	49.0204										15			15
TOTALS											15			15

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STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: MINING & HEAVY EQUIP OPER — CLUSTER CODE 2310

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
570.682-014	PLANT OPERATOR	5	0	--	N.A.
899.684-014	HIGHWAY-MAINTENANCE WORKE	11	9	1.22	8.31

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: TRUCK & BUS DRIVING

CLUSTER CODE 2320

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
BUS DRIVERS	62000401	1141	1168	1190	22	64	86							
TRUCK DRIVERS	62002201	22556	23134	23271	137	763	900							
TOTALS		23697	24302	24461	159	827	986							
SUPPLY:														
TRUCK AND BUS DRIVING	49.0205								833	106	71		109	1119
TOTALS									833	106	71		109	1119

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: TRUCK & BUS DRIVING CLUSTER CODE 2320

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
900.683-010	CONCRETE-MIXING-TRUCK DRI	53	13	4.08	6.44
902.683-010	DUMP-TRUCK DRIVER	132	45	2.93	5.70
903.683-018	TANK-TRUCK DRIVER	7	3	2.33	8.50
904.383-010	TRACTOR-TRAILER-TRUCK DRI	4178	1181	3.54	6.25
904.683-010	LOG-TRUCK DRIVER	5	1	5.00	5.50
905.663-010	GARBAGE COLLECTOR DRIVER	153	16	9.56	4.97
905.663-014	TRUCK DRIVER, HEAVY	3783	461	8.21	5.72
905.663-018	VAN DRIVER	35	12	2.92	4.19
905.683-010	WATER-TRUCK DRIVER 2	8	4	2.00	3.35
906.683-010	FOOD-SERVICE DRIVER	26	5	5.20	9.54
906.683-014	LIQUID-FERTILIZER SERVICE	6	3	2.00	4.67
906.683-022	TRUCK DRIVER, LIGHT	1084	267	4.06	4.26
913.463-010	BUS DRIVER	330	123	2.68	4.85
919.663-026	TOW-TRUCK OPERATOR	25	11	2.27	4.33

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: VEHICLE OPERATORS

CLUSTER CODE 2330

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
BUS DRIVERS, SCHOOL	62000402	10343	10325	10340	15	568	583							
DELIVERY & ROUTE WORKER	62000801	11030	11180	11213	33	268	301							
PARKING LOT ATTENDANTS	62001400	92	100	100	0	11	11							
TAXI DRIVERS	62002004	99	102	103	1	9	10							
DRIVERS, ASSEMBLY LINE	62002005	2	2	2	0	0	0							
CHAUFFEURS	62002007	152	151	152	1	13	14							
TRUCK DRIVER HELPERS	80002825	369	380	383	3	13	16							
TOTALS		22087	22240	22293	53	882	935							
SUPPLY:														
VEHICLE AND EQUIPMENT OPER	49.0201										9			9
VEHICLE AND EQUIPMENT OPER	49.0201J											5		5
TOTALS											9	5		14

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: VEHICLE OPERATORS CLUSTER CODE 2330

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
292.353-010	DRIVER, SALES ROUTE	862	270	3.19	4.88
292.363-010	NEWSPAPER-DELIVERY DRIVER	2	5	0.40	3.46
292.463-010	LUNCH-TRUCK DRIVER	0	15	0.00	3.75
292.483-010	COIN COLLECTOR	11	6	1.83	4.22
299.477-010	DELIVERER, MERCHANDISE	320	297	1.08	3.70
913.463-018	TAXI DRIVER	53	62	0.85	3.72
915.473-010	PARKING-LOT ATTENDANT	3	15	0.20	3.65

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.STATEWIDE
CLUSTER TITLE: RAILROAD TRANSPORTATION

CLUSTER CODE 2340

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
CONDUCTORS, TRAIN	20061200	329	318	311	-7	10	3							
YARD CLERKS	40065405	55	53	52	-1	2	1							
ELECTRIC TRACK SWITCH M	50082801	9	8	8	0	0	0							
YARD ENGINEERS	50120402	153	148	146	-2	6	4							
HOSTLERS	50120403	85	82	80	-2	4	2							
LOCOMOTIVE ENGINEERS	50120405	184	177	174	-3	8	5							
FIRERS, LOCOMOTIVE	50120600	109	105	103	-2	5	3							
BRAKERS, TRAIN	62001600	696	672	659	-13	9	-4							
TOWER OPERATORS	62001800	44	42	41	-1	1	0							
TOTALS		1664	1605	1574	-31	45	14							

SUPPLY:

NO SUPPLY REPORT

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: RAILROAD TRANSPORTATION CLUSTER CODE 2340

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
910.367-010	BRAKE COUPLER, ROAD FREIG	6	0	--	N.A.
910.667-026	SWITCH TENDER	21	0	--	N.A.

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STATEWIDE
CLUSTER TITLE: MARINE TRANSPORTATION

CLUSTER CODE 2350

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
CAPTAINS,WATER VESSEL	20060801	21	21	22	1	1	2							
PILOTS,SHIP	20060802	31	32	32	0	1	1							
DREDGE OPERATORS	50021803	26	27	26	-1	1	0							
MARINE MECHANICS/REPAIR	50081806	23	22	22	0	1	1							
MOTOR BOAT MECHANICS	50083226	90	85	85	0	3	3							
ORDINARY SEAMEN	61084803	72	73	74	1	2	3							
TOTALS		263	260	261	1	9	10							
SUPPLY:														
MARINE PROPULSION TECHNOLO	15.0804												1	1
BARGE AND BOAT OPERATION	49.0302										1		7	8
MARINE MAINTENANCE	49.0306										1		66	67
SAILORS AND DECKHANDS	49.0308												42	42
TOTALS											2		116	118

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MARINE TRANSPORTATION — CLUSTER CODE 2350

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
911.687-022	DECKHAND	50	3	16.67	7.82

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MISCELLANEOUS OPERATIVES

CLUSTER CODE 2400

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
GAS COMPRESSOR OPERATOR	50144005	69	70	70	0	1	1							
PRODUCTION PACKAGERS	61060802	5624	5743	5740	-3	138	135							
BALING MACHINE OPERATOR	61060809	59	58	56	-2	2	0							
POWER SCREWDRIVER OPERA	61080410	625	648	662	14	12	26							
ASSEMBLERS	61080419*	3276	3416	3440	24	68	92							
MACHINE ASSEMBLERS	61080436	4320	4283	4317	34	86	120							
ALL OTHER ASSEMBLERS	61080440	1894	1899	1905	6	38	44							
CUTTERS, MACHINE	61081403	226	218	214	-4	4	0							
CORRUGATOR-KNIFE OPERAT	61081410	17	16	16	0	0	0							
DIE CUTTERS, CLICKING MA	61081424	103	103	102	-1	2	1							
SLITTER-SCORER-CUT-OFF	61081443	59	57	56	-1	1	0							
SLITTING MACHINE OPERAT	61081445	64	63	63	0	1	1							
CUTTING MACHINE OPERATO	61081462	217	223	224	1	4	5							
CUTTERS, HAND	61081463	45	41	41	0	1	1							
DRILLERS, MACHINE	61081804	62	63	62	-1	1	0							
SANDBLASTERS/SHOTBLASTE	61082402	168	172	176	4	5	9							
MIXERS, STONE, CLAY, GLASS	61083854	21	23	23	0	1	1							
PAINTERS, PRODUCTION	61084210	1264	1264	1272	8	19	27							
NAILING MACHINE OPERATO	61084602	123	135	135	0	3	3							
STAPLING MACHINE OPERAT	61084604	34	33	33	0	1	1							
FURNACE, KILN, DRIER OPS	61085619	129	140	140	0	5	5							
REFINERY OPERATORS	61086224	101	102	101	-1	2	1							
DRIER OPERATORS	61086295	123	125	123	-2	3	1							
PRINTER-SLOTTER OPERATO	61087032	28	27	26	-1	1	0							
TAPING MACHINE OPERATOR	61087038	27	26	26	0	1	1							
WAXING MACHINE OPERATOR	61087041	16	16	15	-1	0	-1							
FLEXO-FOLDER-GLUER OPER	61087043	41	40	39	-1	1	0							
CUTTING & CREASING PRES	61087056	39	38	37	-1	1	0							
CORRUGATOR OPERATORS	61087060	35	34	34	0	1	1							
PRESS TENDERS, RUBBER GO	61087618	79	80	79	-1	2	1							
BALANCING MACHINE OPERA	61088429	18	18	18	0	0	0							
GLUERS & OR CEMENTERS, H	61088801	55	55	55	0	1	1							
CONCRETE PIPE MAKERS	61088814	48	53	53	0	1	1							
FINISHERS, HAND	61088818	668	695	686	-9	9	0							
EXTRACTOR OPERATORS, EXT	61089052	152	151	150	-1	6	5							
ALL OTHER SEMISKILLED W	63000000	13709	13932	13944	12	334	346							
RIGGERS	80002822	67	68	69	1	2	3							
TOTALS		33605	34128	34202	74	758	832							
SUPPLY:														
INDUSTRIAL ARTS, GENERAL	21.0101							165						165
INDUSTRIAL CERAMICS MANUFA	48.0601										8			8
PRECISION PRODUCTION, OTHE	48.9999									18	63			81
TOTALS								165		18	71			254

* indicates occupation code occurs in other clusters.

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SUPPLY-DEMAND REPORT

STATEWIDE
TER TITLE: MISC. OPERATIVES (CONTINUED)

CLUSTER CODE 2401

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PIPELINERS	50144801	15	15	15	0	0	0							
SORTERS, BURNED PRODUCTS	61060404	57	61	61	0	2	2							
CORE LAYERS/SHEET TURNE	61080418	21	23	23	0	0	0							
SLITTER-CREASER-SLOTTER	61081442	15	15	14	-1	0	-1							
TIRE REPAIRERS	61082607	22	15	14	-1	0	-1							
TRIMMERS, MACHINE	61085439	25	24	24	0	0	0							
PAPER REEL OPS, REWINDER	61085804	13	13	12	-1	0	-1							
ROLLING MACHINE OPERATO	61086227	25	25	25	0	0	0							
LAYBOY TENDERS	61087027	164	191	195	4	4	8							
SCORERS	61087035	10	10	10	0	0	0							
ENVELOPE MACHINE OPERAT	61087045	99	96	94	-2	3	1							
FOUR-CORNERS-STAYER MAC	61087047	11	11	10	-1	0	-1							
BAG MACHINE OPERATORS	61087051	16	15	15	0	0	0							
BOX MAKERS, PAPERBOARD	61087054	23	22	22	0	1	1							
SLOTTER OPERATORS	61087070	4	4	4	0	0	0							
CASTING RM OPERATORS, CE	61087241	47	41	39	-2	1	-1							
GLUEMAKERS	61087273	28	24	23	-1	1	0							
RUBBER MILL OPERATORS	61087603	39	29	27	-2	1	-1							
CERS	61087611	27	19	17	-2	1	-1							
E BUILDERS	61087614	399	274	249	-25	6	-19							
BRAIDING MACH TENDERS	61087621	39	36	35	-1	1	0							
BEAD FLIPPERS	61087627	35	24	22	-2	0	-2							
CALENDAR OPERATOR HELPE	61087634	30	21	19	-2	0	-2							
VACUUM PLASTIC FORMING	61087637	23	24	24	0	0	0							
FINISHERS, MACHINE	61087639	27	29	29	0	1	1							
BRICK & TILE MAKING MAC	61088058	17	17	17	0	0	0							
CONCRETE VAULT MAKERS	61088070	45	49	49	0	1	1							
COIL TAPERS, HAND OR MAC	61088289	24	24	24	0	1	1							
EMBOSS, STAMP, MARK MACHI	61088404	75	79	79	0	3	3							
FILTER/FILTER PRESS OPE	61088405	29	27	27	0	1	1							
BRAIDING MACHINE OPERAT	61088406	10	11	11	0	0	0							
GRINDER OPERATORS	61088407	42	42	41	-1	1	0							
LOADING MACHINE OPERATO	61088436	46	47	48	1	1	2							
PUMP OPERATORS	61088444	26	24	24	0	1	1							
CURERS, RUBBER GOODS	61089002	34	28	27	-1	1	0							
CASTERS, PLASTICS	61089078	54	56	57	1	1	2							
SAMPLERS & OR TEST PREP	80001012	25	28	29	1	1	2							
TIRE LAYERS & EXTRACTOR	80001015	47	32	29	-3	1	-2							
MOLD CLEANERS, TIRE	80002403	27	20	18	-2	0	-2							
SCRAP SORTERS	80002821	30	33	34	1	1	2							
TOTALS		1745	1578	1536	-42	36	-6							

SUPPLY:

NO SUPPLY REPORT

02/27/86
IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MISC. OPERATIVES (CONTINUED)

CLUSTER CODE 2402

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
MODEL &/OR MOLD MAKERS	50062209	16	18	18	0	1	1							
CORROSION CONTROL FITTE	50144827	3	3	3	0	0	0							
WRAPPING MACHINE OPERAT	61060807	3	2	2	0	0	0							
PLASTIC TOP INSTALLERS	61080409	4	4	4	0	0	0							
GLASS CUT-OFF MACHINE O	61081425	21	23	23	0	0	0							
SHEETER OPERATORS, PLAST	61081439	19	17	16	-1	0	-1							
TRIMMERS, PLASTICS	61081458	14	15	15	0	0	0							
RIVETERS, HEAVY	61084605	7	7	7	0	0	0							
KILN OPERATORS, LUMBER	61085614	1	1	1	0	0	0							
EDGE GLUERS	61086807	16	17	17	0	0	0							
HYDRAULIC PRESS OPERATO	61086814	6	7	7	0	0	0							
GLUING MACHINE OPERATOR	61086815	7	7	7	0	0	0							
PULPERS	61087006	9	9	8	-1	0	-1							
BACK TENDERS	61087015	4	4	4	0	0	0							
BEATER ENGINEERS	61087019	2	2	2	0	0	0							
CYLINDER MACHINE TENDER	61087022	10	10	10	0	0	0							
COATER OPERATORS, OFF-MA	61087023	17	16	16	0	0	0							
TUBE MACHINE OPERATORS,	61087039	15	14	14	0	0	0							
FOLDING MACHINE OPERATO	61087048	3	3	3	0	0	0							
FOLDING MACHINE FEEDERS	61087050	7	7	6	-1	0	-1							
BOTTOMING MACHINE OPERA	61087053	9	9	9	0	0	0							
CARTON-FORMING MACH OPE	61087059	20	19	19	0	1	1							
COMBINER OPERATORS	61087061	8	7	7	0	0	0							
SCRAPPERS/STRIPPERS	61087063	24	24	23	-1	0	-1							
FOURTH&FIFTH HANDS, PAPE	61087065	6	6	6	0	0	0							
STERILIZERS	61087279	7	6	6	0	0	0							
AMPULE FILL, SEAL, WASH O	61087283	9	8	8	0	0	0							
BEAD FORMING MACH OPERA	61087626	11	8	7	-1	0	-1							
LIMERS	61087803	18	20	20	0	0	0							
TANNING DRUM OPS/COLORE	61087810	20	22	22	0	0	0							
WRINGER MACHINE OPERATO	61087811	18	20	20	0	0	0							
PRESS OPERATORS	61088026	3	3	3	0	0	0							
SCREENER OPERATORS	61088049	5	5	5	0	0	0							
ABRASIVE GRINDERS	61088064	6	6	6	0	0	0							
MILLERS, CLAY	61088071	4	4	4	0	0	0							
TUMBLER OPERATORS, PLAST	61088414	6	6	7	1	0	1							
VULCANIZERS, RUBBER PLAT	61088423	6	6	6	0	0	0							
TIRE FINISHERS	61089072	7	5	4	-1	0	-1							
PURIFICATION OPERATORS,	61089091	10	9	9	0	0	0							
SETTERS &/OR DRAWERS	80002812	11	12	12	0	0	0							
TOTALS		392	391	386	-5	2	-3							

SUPPLY:

NO SUPPLY REPORT

02/27/86

IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: MISC. OPERATIVES (CONTINUED)

CLUSTER CODE 2403

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
SELECTORS, GLASSWARE	61060209	7	7	7	0	0	0							
RUBBER GDS CUTTER-FINIS	61081435	1	1	1	0	0	0							
HAND EDGERS/BELT SEAMER	61082406	5	5	5	0	0	0							
POLISHERS, GLASS &/OR BL	61082408	8	9	9	0	0	0							
COATING MIXER TENDERS	61083817	1	1	1	0	0	0							
ROOF CEMENT & PAINT MAK	61083835	1	1	1	0	0	0							
SAWYERS, PLASTICS	61085015	4	4	4	0	0	0							
WINDERS, PAPER MACHINE	61085808	2	2	2	0	0	0							
COOLING MACHINE OPERATO	61086283	1	1	1	0	0	0							
TREATING ENGINEERS	61086803	5	6	6	0	0	0							
VENEER REPAIRERS, MACHIN	61086805	1	1	1	0	0	0							
PULP REFINER OPERATORS	61087005	2	2	2	0	0	0							
RECOVERY OPERATORS, PAPE	61087007	5	5	5	0	0	0							
FOURDRINIER MACHINE TEN	61087014	2	2	2	0	0	0							
DIGESTER OPERATORS	61087021	2	2	2	0	0	0							
CALCINER OPERATORS	61087213	4	3	3	0	0	0							
LEAD PRESS OPERATORS	61087601	5	4	4	0	0	0							
LEAD STRIPPING MACHINE	61087602	5	4	4	0	0	0							
REFINER OPERATORS, RUBBE	61087606	1	1	0	0	0	0							
ROLLER BUILDERS, RUBBER	61087607	1	1	1	0	0	0							
CERS, RUBBER PRODUCT	61087615	4	4	4	0	0	0							
DIPPING MACHINE OPERATO	61087629	1	1	1	0	0	0							
HANDBAG FRAMERS	61087807	3	3	3	0	0	0							
STAKERS, MACHINE	61087809	3	4	4	0	0	0							
GLOVE TURNERS & FORMERS	61087814	2	3	3	0	0	0							
SLIVER FORMING & WINDIN	61088004	1	1	1	0	0	0							
REFACTORY GRINDER OPERA	61088021	2	2	2	0	0	0							
CASTERS, PATTERY & PORCE	61088810	6	7	7	0	0	0							
REFRACTORY MOLDERS, HAND	61088828	2	2	2	0	0	0							
LUGGAGE MAKERS	61089032	1	1	1	0	0	0							
FINISHERS, POTTERY & POR	61089082	14	14	14	0	0	0							
STRIPPERS	80002815	2	2	2	0	0	0							
TOTALS		104	106	105	0	0	0							

SUPPLY:

NO SUPPLY REPORT

03/04/86
IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION
STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MISCELLANEOUS OPERATIVES CLUSTER CODE 2400

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
409.683-010	FARM-MACHINE OPERATOR	18	37	0.49	4.59
503.687-010	SANDBLASTER	54	18	3.00	6.26
509.685-010	ALODIZE-MACHINE HELPER	13	0	--	N.A.
518.687-014	FOUNDRY LABORER, COREROOM	5	0	--	N.A.
520.682-018	EXTRUDER OPERATOR	5	0	--	N.A.
521.362-018	REFINERY OPERATOR	11	0	--	N.A.
521.685-306	SLICING-MACHINE OPERATOR	7	0	--	N.A.
525.684-034	HEAD TRIMMER	11	0	--	N.A.
525.687-010	ANIMAL EVISCERATOR	13	92	0.14	6.33
529.685-074	CONTAINER WASHER, MACHINE	5	0	--	N.A.
529.685-154	LABORER, STARCH FACTORY	16	3	5.33	9.17
556.685-066	PRESS TENDER	14	0	--	N.A.
559.687-018	CASTING-MACHINE-SERVICE O	7	0	--	N.A.
559.687-050	LABORER, CHEMICAL PROCESS	5	0	--	N.A.
579.380-010	BOARD-MACHINE SET-UP OPER	31	29	1.07	7.48
579.662-010	MAT-MACHINE OPERATOR	8	0	--	N.A.
585.681-010	FLESHER	0	12	0.00	3.40
599.585-010	STERILIZER	5	0	--	N.A.
599.682-010	PAINTER, ELECTROSTATIC	7	0	--	N.A.
602.685-010	GEAR-CUTTING-MACHINE OPER	6	0	--	N.A.
619.682-014	COUPLING-MACHINE OPERATOR	6	0	--	N.A.
624.381-018	FARM-MACHINERY SET-UP MEC	30	3	10.00	3.67
640.685-058	REWINDER OPERATOR	0	5	0.00	8.00
649.685-014	BAG-MACHINE OPERATOR	6	5	1.20	5.85
649.685-018	BINDERY WORKER	9	15	0.60	4.10
649.685-070	MACHINE OPERATOR, GENERAL	8	1	8.00	3.35
663.685-034	SLICING-MACHINE TENDER	5	2	2.50	4.00
667.685-014	BAND-SAW OPERATOR	6	0	--	N.A.
667.686-014	SAWMILL WORKER	5	0	--	N.A.
669.682-058	NAILING-MACHINE OPERATOR	0	14	0.00	3.65
690.382-010	SHEETER OPERATOR	10	0	--	N.A.
699.682-030	SLITTING-MACHINE OPERATOR	8	0	--	N.A.
706.361-010	ASSEMBLER	293	33	8.88	5.36
706.684-010	AIR-CONDITIONING-COIL ASS	17	0	--	N.A.
706.684-018	ASSEMBLER, PRODUCT	234	65	3.60	3.77
706.684-022	ASSEMBLER, SMALL PARTS	270	11	24.55	4.52
706.684-074	LOCK ASSEMBLER	0	9	0.00	3.35
706.687-010	ASSEMBLER, PRODUCTION	6975	873	7.99	4.77
706.687-030	PUSH-CONNECTOR ASSEMBLER	76	14	5.43	4.59
709.684-014	ASSEMBLER, METAL FURNITUR	2	14	0.14	4.95
722.381-010	ASSEMBLER	9	0	--	N.A.
723.684-010	ASSEMBLER	21	1	21.00	3.50
726.384-010	ELECTRONICS ASSEMBLER	43	0	--	N.A.
726.684-010	CAPACITOR-PACK-PRESS OPER	7	0	--	N.A.
726.684-014	ELECTRONIC-SCALE SUBASSEM	52	3	17.33	4.95

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE ..(Continued) IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MISCELLANEOUS OPERATIVES CLUSTER CODE 2400

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
726.684-018	ELECTRONICS ASSEMBLER	497	133	3.74	4.80
727.687-022	ASSEMBLER, DRY CELL AND B	8	0	--	N.A.
727.687-038	BATTERY-PARTS ASSEMBLER	1	35	0.03	5.06
728.384-010	ASSEMBLER, ELECTRICAL WIR	32	0	--	N.A.
728.684-010	CABLE MAKER	11	4	2.75	3.57
729.684-026	ELECTRICAL-CONTROL ASSEMB	6	0	--	N.A.
729.687-010	ASSEMBLER, ELECTRICAL ACC	75	21	3.57	9.45
733.685-010	ASSEMBLER	263	83	3.17	5.58
733.687-010	ASSEMBLER, MARKING DEVICE	8	55	0.15	5.69
733.687-030	DATER ASSEMBLER	12	21	0.57	5.62
737.684-038	SHELL ASSEMBLER	5	2	2.50	8.22
739.687-010	ASSEMBLER-ARRANGER	15	0	--	N.A.
740.684-022	PAINTER, BRUSH	121	137	0.88	4.14
741.684-014	FOAM-GUN OPERATOR	6	1	6.00	7.40
741.684-026	PAINTER, SPRAY 1	290	29	10.00	6.09
741.685-010	SPRAY-PAINTING-MACHINE OP	6	2	3.00	5.00
741.687-018	PAINTER, SPRAY 2	85	7	12.14	5.21
750.384-010	TIRE BUILDER, AUTOMOBILE	29	0	--	N.A.
750.684-014	BEAD BUILDER	5	0	--	N.A.
750.684-022	TIRE BUILDER	19	0	--	N.A.
752.684-030	HOSE MAKER	2	20	0.10	5.60
752.684-034	PADDED-PRODUCTS FINISHER	43	0	--	N.A.
754.684-010	ASSEMBLER	11	3	3.67	7.10
759.684-050	RUBBER LINER	5	0	--	N.A.
763.684-038	FURNITURE ASSEMBLER	10	0	--	N.A.
763.684-078	WICKER WORKER	26	62	0.42	3.40
769.684-054	WEAVER	5	0	--	N.A.
775.684-022	GLASS CUTTER	5	1	5.00	4.00
782.684-058	SEWER, HAND	10	7	1.43	3.36
794.687-050	SCRAPPER	5	0	--	N.A.
801.684-022	PROGRESSIVE ASSEMBLER AND	393	1	393.00	7.00
806.367-010	UTILITY WORKER, LINE ASSE	0	7	0.00	9.06
806.381-058	TRAILER ASSEMBLER	7	0	--	N.A.
806.684-010	ASSEMBLER, AUTOMOBILE	3	34	0.09	5.00
806.684-014	ASSEMBLER, BICYCLE 1	2	19	0.11	5.15
806.684-018	ASSEMBLER, CAMPER	109	215	0.51	5.08
806.684-038	AUTOMOBILE-ACCESSORIES IN	5	0	--	N.A.
806.684-054	FIBERGLASS LAMINATOR	4	16	0.25	4.53
807.664-010	MUFFLER INSTALLER	6	0	--	N.A.
809.381-010	FABRICATOR-ASSEMBLER, MET	25	71	0.35	5.06
809.684-010	ASSEMBLER, PRODUCTION LIN	20	0	--	N.A.
809.687-010	DUCT MAKER	5	1	5.00	4.50
821.281-010	TELEVISION-CABLE INSTALLE	40	10	4.00	4.46
827.684-010	APPLIANCE ASSEMBLER, LINE	5	0	--	N.A.
828.261-010	ELECTRONIC-ORGAN TECHNICI	5	0	--	N.A.
843.684-014	UNDERCOATER	0	7	0.00	3.50

03/04/86
IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE ..(Continued) IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MISCELLANEOUS OPERATIVES CLUSTER CODE 2400

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
845.381-014	PAINTER, TRANSPORTATION E	18	4	4.50	5.92
845.684-014	PAINTER HELPER, AUTOMOTIV	10	2	5.00	4.00
863.684-014	SIDER	93	21	4.43	5.73
865.684-014	GLASS INSTALLER	15	1	15.00	5.00
869.664-010	CONCRETE-BUILDING ASSEMBL	270	99	2.73	4.79
869.687-010	AWNING-HANGER HELPER	77	16	4.81	4.02
869.687-014	CAMOUFLAGE ASSEMBLER	137	8	17.13	5.14
910.667-014	CONDUCTOR	5	0	--	N.A.
920.587-018	PACKAGER, HAND	911	346	2.63	3.84
920.685-010	BALING-MACHINE TENDER	28	1	28.00	6.05
920.685-078	PACKAGER, MACHINE	191	41	4.66	6.29
920.687-134	PACKER, AGRICULTURAL PROD	15	15	1.00	3.44
921.260-010	RIGGER	7	0	--	N.A.
921.667-018	DUMPER	0	13	0.00	4.75
921.667-022	LABORER, HOISTING	14	0	--	N.A.
922.687-014	BINDER-AND-WRAPPER PACKER	8	8	1.00	3.51
977.687-010	COLLATOR, HAND	0	8	0.00	3.47
979.684-018	LEGEND MAKER	11	0	--	N.A.
979.684-026	PRINT-SHOP HELPER	5	11	0.45	5.81

02/27/86

IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: MISCELLANEOUS SERVICE

CLUSTER CODE 2410

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
BAGGERS	61060804	3026	3117	3136	19	44	63							
BILLPOSTERS	61089203	29	32	33	1	2	3							
PIN CHASERS	70080403	155	165	170	5	6	11							
RACKERS,POOLROOM	70080404	3	3	3	0	0	0							
CHECKROOM & LOCKER RM A	70080618	23	22	23	1	2	3							
BELLHOPS,BAG PORTERS,DR	70080801	110	116	119	3	2	5							
BAGGAGE PORTERS	70080802	6	6	6	0	0	0							
BAGGAGE HANDLERS	70080803	35	34	33	-1	1	0							
CHECKERS,FITTING ROOM	70100602	3	3	3	0	0	0							
ALL OTHER SERVICE WORKE	70200099	3101	3190	3233	43	290	333							
LOCKER PLANT ATTENDANTS	80002827	131	143	144	1	3	4							
LINE SERVICE ATTENDANTS	80002830	140	145	147	2	3	5							
TOTALS		6762	6976	7050	74	353	427							

SUPPLY:

NO SUPPLY REPORT

02/26/86
IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MISCELLANEOUS SERVICE — CLUSTER CODE 2410

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
301.137-010	HOUSEKEEPER, HOME	243	54	4.50	4.49
301.474-010	HOUSE WORKER, GENERAL	518	129	4.02	3.84
301.687-010	CARETAKER	289	105	2.75	4.12
301.687-014	DAY WORKER	685	149	4.60	3.98
309.677-010	COMPANION	508	296	1.72	3.84
324.677-010	BELLHOP	3	27	0.11	3.38
329.467-010	ATTENDANT, LODGING FACILI	0	12	0.00	3.50
352.577-010	BUS ATTENDANT	1	7	0.14	4.43
352.667-010	HOST/HOSTESS	11	0	--	N.A.
354.377-014	HOME ATTENDANT	153	85	1.80	3.84
355.677-014	HOSPITAL ENTRANCE ATTENDA	9	5	1.80	4.21
358.677-014	LOCKER-ROOM ATTENDANT	9	5	1.80	3.50
359.573-010	BLIND AIDE	0	5	0.00	5.00
372.667-014	BODYGUARD	10	3	3.33	3.50
915.667-010	CAR-WASH ATTENDANT, AUTOM	3	15	0.20	3.44
920.687-014	BAGGER	76	39	1.95	3.71

02/27/86
IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: MISCELLANEOUS LABORERS

CLUSTER CODE 2420

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
PLATER HELPERS	61088834	70	71	72	1	2	3							
PIPE STRIPPERS	61088851	20	21	21	0	0	0							
CHAIN OFFBEARERS,LUMBER	80001005	51	55	55	0	1	1							
LOADERS,CAR & TRUCK	80001007	46	50	50	0	1	1							
LUMBER STRAIGHTENERS	80001008	19	19	19	0	0	0							
OFF-BEARERS	80001009	80	86	86	0	2	2							
VENEER DRIER FEEDERS	80001018	8	9	9	0	0	0							
REFUSE COLLECTORS	80001200	733	756	765	9	24	33							
CLEANERS,VEHICLE	80002401	1167	1133	1123	-10	19	9							
EQUIPMENT CLEANERS, HAN	80002404	515	529	534	5	9	14							
SEPTIC TANK SERVICERS,E	80002832	51	49	48	-1	1	0							
ALL OTHER LABORERS & UN	80002899	32304	32838	33019	181	821	1002							
TOTALS		35064	35616	35801	185	880	1065							
SUPPLY:														
TRAINING, OTHER	xx.xxxx										47			47
TOTALS											47			47

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MISCELLANEOUS LABORERS — CLUSTER CODE 2420

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
230.687-010	ADVERTISING-MATERIAL DIST	0	5	0.00	4.00
361.684-014	LAUNDRY WORKER 1	152	33	4.61	3.77
361.685-018	LAUNDRY WORKER 2	97	45	2.16	3.49
361.687-018	LAUNDRY LABORER	89	29	3.07	3.91
372.667-022	FLAGGER	26	91	0.29	4.09
509.686-010	LABORER, GENERAL	892	115	7.76	5.65
519.686-010	LABORER, GENERAL	23	3	7.67	8.85
519.687-026	LABORER, GENERAL	6	0	--	N.A.
521.687-042	EGG BREAKER	4	15	0.27	3.35
525.587-014	SMOKED MEAT PREPARER	4	39	0.10	6.00
525.684-038	OFFAL SEPARATOR	5	0	--	N.A.
525.684-054	TRIMMER, MEAT	117	3	39.00	4.70
525.686-010	CASING CLEANER	1	14	0.07	3.35
525.687-038	HIDE HANDLER	12	12	1.00	5.00
529.686-010	BUNDLES HANGER	7	2	3.50	7.35
529.686-030	EGG WASHER, MACHINE	10	63	0.16	3.35
529.686-034	FACTORY HELPER	20	0	--	N.A.
529.686-070	PRODUCTION HELPER	391	121	3.23	5.81
529.687-010	BASKET FILLER	45	27	1.67	6.08
529.687-030	CASING SEWER	160	267	0.60	6.68
529.687-130	LABORER, SLAUGHTERING & M	3313	1680	1.97	5.98
559.567-010	LABORER, GENERAL	20	6	3.33	3.64
559.686-026	LABORER, GENERAL	94	45	2.09	10.34
561.687-010	WOOD-POLE TREATER	0	6	0.00	4.79
575.687-010	BALCONY WORKER	1	60	0.02	7.48
579.667-010	LABORER, GENERAL	35	35	1.00	5.84
579.686-010	LABORER, CONCRETE PLANT	9	0	--	N.A.
589.686-026	LABORER, GENERAL	5	0	--	N.A.
599.684-010	EQUIPMENT CLEANER	14	18	0.78	3.97
599.685-026	DIPPER	6	1	6.00	6.00
599.687-030	WASHER	12	0	--	N.A.
609.684-014	LABORER, GENERAL	1276	341	3.74	6.09
609.685-010	BALL SORTER	44	7	6.29	3.84
619.685-014	BANDING-MACHINE OPERATOR	0	15	0.00	9.10
619.686-010	AUTOMATIC STACKER	24	5	4.80	4.25
641.686-018	CORRUGATOR-OPERATOR HELPE	0	17	0.00	8.20
659.686-010	JOGGER	5	0	--	N.A.
691.687-010	PRODUCTION HELPER	39	0	--	N.A.
699.587-010	SLITTING-MACHINE-OPERATOR	9	8	1.13	6.02
699.686-010	MACHINE FEEDER	6	0	--	N.A.
699.687-014	MACHINE CLEANER	5	2	2.50	7.71
705.687-010	JIGGER	29	0	--	N.A.
706.687-018	FAN-BLADE ALINER	19	0	--	N.A.
723.687-010	PATCHER	6	0	--	N.A.
726.687-010	ELECTRONICS WORKER	3	5	0.60	5.00

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STATEWIDE ..(Continued) IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MISCELLANEOUS LABORERS CLUSTER CODE 2420

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
728.687-010	WIREWORKER	2	9	0.22	3.72
741.687-014	PAINTER HELPER, SPRAY	24	0	--	N.A.
754.687-010	LABORER, GENERAL	7	39	0.18	5.53
780.684-062	FABRICATOR, FOAM RUBBER	21	2	10.50	3.35
789.687-090	LABORER, CANVAS SHOP	1	28	0.04	5.60
794.687-058	TABBER	7	0	--	N.A.
809.687-026	MOLD PREPARER	5	0	--	N.A.
819.686-010	MACHINE FEEDER	8	1	8.00	5.00
819.687-014	WELDER HELPER	6	0	--	N.A.
869.687-018	CLEANER	5	0	--	N.A.
905.687-010	TRUCK-DRIVER HELPER	125	58	2.16	7.17
905.687-014	VAN-DRIVER HELPER	29	21	1.38	5.04
909.687-010	GARBAGE COLLECTOR	48	2	24.00	4.63
910.682-010	TRACK REPAIRER	129	28	4.61	7.66
914.687-010	LABORER, PIPE-LINES	0	11	0.00	6.40
915.687-022	PORTER, USED-CAR LOT	33	28	1.18	3.59
919.687-014	CLEANER 2	236	154	1.53	3.76
921.686-014	CONVEYOR FEEDER-OFFBEARER	0	19	0.00	7.71
921.687-030	RIGGER, THIRD	9	55	0.16	5.78
922.687-010	BIN FILLER	41	0	--	N.A.
922.687-030	CAN FILLER	64	2	32.00	4.25
922.687-046	ICER	5	0	--	N.A.
922.687-050	INSTALLER	24	0	--	N.A.
922.687-054	LABORATORY-SAMPLE CARRIER	10	0	--	N.A.
922.687-062	LABORER, WHARF	5	0	--	N.A.
929.587-014	WEIGHER, PRODUCTION	5	0	--	N.A.
929.686-010	BAKERY WORKER	21	16	1.31	4.01
929.686-014	BAND SALVAGER	204	19	10.74	5.55
929.687-014	KILN DRAWER	52	1	52.00	5.00
929.687-018	LABORER, HIGH-DENSITY PRE	30	15	2.00	3.53
929.687-022	LABORER, SALVAGE	88	13	6.77	3.86
929.687-026	LINER INSERTER	6	0	--	N.A.
929.687-046	SCALER-PACKER	11	0	--	N.A.
929.687-050	WRAPPER COUNTER	19	0	--	N.A.
955.687-014	SNOW SHOVELER	8	8	1.00	4.05

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PERFORMING ARTS

CLUSTER CODE 5000

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE-TICE	MILIT-ARY	TOTAL
DEMAND DATA:														
ACTORS OR ACTRESSES	10220200	39	42	43	1	1	2							
DANCERS	10220800	17	19	19	0	0	0							
MUSICIANS, INSTRUMENTAL	10221404	273	287	294	7	14	21							
SINGERS	10221405	6	7	7	0	0	0							
MUSIC DIRECTORS	10221408	22	24	24	0	1	1							
TOTALS		357	379	387	8	16	24							

SUPPLY:

NO SUPPLY REPORT

02/26/86
IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE
IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: PERFORMING ARTS
CLUSTER CODE 5000

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
150.047-010	ACTOR	3	12	0.25	4.96
151.047-010	DANCER	8	0	--	N.A.
152.041-010	MUSICIAN, INSTRUMENTAL	5	0	--	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: FINE ARTS

CLUSTER CODE 5010

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DESIGNERS	10221001*	718	727	729	2	19	21							
PAINTINGS RESTORERS	10221605	4	4	4	0	0	0							
TOTALS		722	731	733	2	19	21							

* indicates occupation code occurs in other clusters.

SUPPLY:

NO SUPPLY REPORT

02/26/86
IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE | IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: FINE ARTS | CLUSTER CODE 5010

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
142.051-014	INTERIOR DESIGNER	55	17	3.24	4.00
142.081-010	FLORAL DESIGNER	111	36	3.08	3.83

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PRINT JOURNALISM

CLUSTER CODE 5020

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
SPECIFICATION WRITERS,E	10081814	6	6	6	0	0	0							
WRITERS &/OR EDITORS	10221201	1518	1580	1585	5	79	84							
REPORTERS & CORRESPONDE	10221203	646	664	659	-5	33	28							
TOTALS		2170	2250	2250	0	112	112							

SUPPLY:

NO SUPPLY REPORT

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: PRINT JOURNALISM CLUSTER CODE 5020

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
131.067-014	COPY WRITER	18	4	4.50	5.86
131.067-046	WRITER, PROSE, FICTION AN	17	111	0.15	4.00
131.267-014	NEWSWRITER	10	0	--	N.A.
131.267-018	REPORTER	23	2	11.50	4.93
131.267-026	WRITER, TECHNICAL PUBLICA	44	12	3.67	7.76
132.267-014	EDITORIAL ASSISTANT	58	1	58.00	9.62

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: SPORTS

CLUSTER CODE 5030

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ATHLETES	10220401	67	112	115	3	1	4							
UMPIRES	10220404	17	25	26	1	0	1							
LIFEGUARDS	70080407	1405	1444	1464	20	1	21							
TOTALS		1489	1581	1605	24	2	26							

SUPPLY:

NO SUPPLY REPORT

STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: SPORTS — CLUSTER CODE 5030

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
153.267-018	UMPIRE	0	18	0.00	5.89
379.667-014	LIFEGUARD	12	34	0.35	3.36

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: DENTISTS

CLUSTER CODE 5100

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
DENTISTS	10100400	770	771	771	0	55	55							
TOTALS		770	771	771	0	55	55							

SUPPLY:

NO SUPPLY REPORT

NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PHYSICIANS

CLUSTER CODE 5110

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PHYSICIANS &/OR SURGEON	10101400	2583	2591	2599	8	189	197							
TOTALS		2583	2591	2599	8	189	197							

SUPPLY:

NO SUPPLY REPORT

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: PHYSICIANS CLUSTER CODE 5110

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
070.101-022	GENERAL PRACTITIONER	6	2	3.00	11.11

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: CHIROPRACTORS

CLUSTER CODE 5120

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CHIROPRACTORS	10100200	112	112	112	0	9	9							
TOTALS		112	112	112	0	9	9							

SUPPLY:

NO SUPPLY REPORT

NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: OPTOMETRISTS

CLUSTER CODE 5130

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE-TICE	MILIT-ARY	TOTAL
DEMAND DATA:														
OPTOMETRISTS	10101000	311	312	312	0	25	25							
TOTALS		311	312	312	0	25	25							

SUPPLY:

NO SUPPLY REPORT

NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PHARMACISTS

CLUSTER CODE 5140

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PHARMACISTS	10101200	1318	1334	1341	7	61	68							
TOTALS		1318	1334	1341	7	61	68							

SUPPLY:

NO SUPPLY REPORT

NO ANALYSIS

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                                              02/27/86
                                    IOWA OCCUPATIONAL INFORMATION NETWORK
                                    S U P P L Y - D E M A N D   R E P O R T
STATEWIDE
CLUSTER TITLE:  DIETICIANS
                                                                                         CLUSTER CODE 5150
-------------------------------------------------------------------------------------------------------------------
   - OCCUPATION/PROGRAM -   CODE     1985  1987  1988  (ESTIMATED '87-'88) PUBLIC  PUBLIC PRIVATE JTPA/  APPRE- MILIT-   TOTAL
      T I T L E                      EMPL  EMPL  EMPL  GROWTH REPLAC OPEN  SECOND  P. SEC P. SEC  OJT    TICE   ARY
-------------------------------------------------------------------------------------------------------------------

        DEMAND DATA:
DIETITIANS &/OR NUTRITI  10100600     759   762   765     3     46     49
                         ----------------------------------------------
TOTALS                                759   762   765     3     46     49




        SUPPLY:                                                        NO SUPPLY REPORT
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NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PODIATRISTS

CLUSTER CODE 5160

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PODIATRISTS	10101600	54	54	54	0	5	5							
TOTALS		54	54	54	0	5	5							

SUPPLY:

NO SUPPLY REPORT

NO ANALYSIS

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                                             02/27/86
                                  IOWA OCCUPATIONAL INFORMATION NETWORK
                                   S U P P L Y - D E M A N D   R E P O R T
STATEWIDE
CLUSTER TITLE:  VETERINARIANS
                                                                                            CLUSTER CODE 5170
--------------------------------------------------------------------------------------------------------------
  - OCCUPATION/PROGRAM -   CODE    1985  1987  1988  (ESTIMATED '87-'88) PUBLIC  PUBLIC  PRIVATE JTPA/ APPRE- MILIT-  TOTAL
    T I T L E                      EMPL  EMPL  EMPL  GROWTH REPLAC OPEN  SECOND  P. SEC  P. SEC  OJT   TICE   ARY
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       DEMAND DATA:
VETERINARIANS         10102000   174   177   181     4      7     11
                      ------------------------------------------------

TOTALS                           174   177   181     4      7     11




       SUPPLY:
VETERINARIAN AIDE         17.0511                                                         1                  1
VETERINARIAN ASSISTING    17.0512                                                         1                  1

                                                            ----------------------------------------------

TOTALS                                                                                    2                  2
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NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PHYSICIANS ASSISTING

CLUSTER CODE 5180

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
PHYSICIANS ASSISTANTS	10121014	199	200	200	0	4	4							
TOTALS		199	200	200	0	4	4							
SUPPLY:														
PHYSICIAN ASSISTING-PRIM.C	17.0508								11					11
TOTALS									11					11

NO ANALYSIS

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: LAW SERVICES

CLUSTER CODE 5200

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
JUDGES	10242001	83	85	87	2	10	12							
MAGISTRATES	10242002	96	98	98	0	12	12							
LAW CLERKS	10242201	453	460	461	1	30	31							
LAWYERS	10242202	2206	2253	2268	15	158	173							
TOTALS		2838	2896	2914	18	210	228							

SUPPLY:

NO SUPPLY REPORT

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IOWA OCCUPATIONAL INFORMATION NETWORK

ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: LAW SERVICES CLUSTER CODE 5200

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
110.107-010	LAWYER	25	1	25.00	10.54
119.267-022	LEGAL INVESTIGATOR	7	2	3.50	5.78
119.267-026	PARALEGAL ASSISTANT	29	2	14.50	9.13

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IOWA OCCUPATIONAL INFORMATION NETWORK
SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: LIBRARIANS

CLUSTER CODE 5300

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MUSEUM TECHNICIANS, REST	10141401	40	42	42	0	2	2							
ARCHIVISTS	10240601	14	14	14	0	1	1							
MUSEUM CURATORS	10240603	50	51	51	0	3	3							
LIBRARIANS	10242401	2141	2157	2168	11	136	147							
TOTALS		2245	2264	2275	11	142	153							

SUPPLY:

NO SUPPLY REPORT

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: LIBRARIANS CLUSTER CODE 5300

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
100.127-014	LIBRARIAN	6	10	0.60	8.65
109.267-010	RESEARCH ASSISTANT	10	0	--	N.A.

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IOWA OCCUPATIONAL INFORMATION NETWORK

SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: MATHEMATICIANS

CLUSTER CODE 5400

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ACTUARIES	10060200	123	130	135	5	2	7							
MATHEMATICIANS	10060402	1	1	1	0	0	0							
ALL OTHER MATH SCIENTIS	10060403	38	40	40	0	1	1							
STATISTICIANS	10060600	139	143	145	2	2	4							
FINANCIAL ANALYSTS	10180201	112	118	123	5	2	7							
TOTALS		413	432	444	12	7	19							

SUPPLY:

NO SUPPLY REPORT

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: MATHEMATICIANS CLUSTER CODE 5400

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
020.167-014	FINANCIAL ANALYST	28	1	28.00	5.77
020.167-026	STATISTICIAN, APPLIED	3	6	0.50	8.74

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: PHYSICAL SCIENTISTS

CLUSTER CODE 5410

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
METEOROLOGISTS	10040400	16	16	17	1	0	1							
GEOLOGISTS & GEOPHYSICI	10041000	27	27	28	1	1	2							
PHYSICISTS	10041400	75	77	77	0	2	2							
TOTALS		118	120	122	2	3	5							

SUPPLY:

NO SUPPLY REPORT

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IOWA OCCUPATIONAL INFORMATION NETWORK
ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: PHYSICAL SCIENTISTS — CLUSTER CODE 5410

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
024.061-018	GEOLOGIST	7	2	3.50	10.20

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: CHEMISTS

CLUSTER CODE 5420

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CHEMISTS	10040800	563	550	544	-6	12	6							
TOTALS		563	550	544	-6	12	6							

SUPPLY:

NO SUPPLY REPORT

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: CHEMISTS — CLUSTER CODE 5420

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
022.061-010	CHEMIST	54	9	6.00	7.83

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SUPPLY-DEMAND REPORT

STATEWIDE

CLUSTER TITLE: LIFE & PHYSICAL SCIENTISTS

CLUSTER CODE 5430

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
LIFE & PHYSICAL SCIENTI	10041600	299	303	300	-3	5	2							
ALL OTHER PHYSICAL SCIE	10041603	2	2	2	0	0	0							
TOTALS		301	305	302	-3	5	2							

SUPPLY:

NO SUPPLY REPORT

NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: BIOLOGICAL SCIENTISTS

CLUSTER CODE 5440

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED '87-'88)			PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
AGRICULTURAL SCIENTISTS	10040200	151	157	160	3	7	10							
BIOLOGICAL SCIENTISTS	10040601	1050	1044	1045	1	13	14							
MEDICAL SCIENTISTS	10040602	17	17	17	0	1	1							
TOTALS		1218	1218	1222	4	21	25							

SUPPLY:

NO SUPPLY REPORT

IOWA OCCUPATIONAL INFORMATION NETWORK

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STATEWIDE IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: BIOLOGICAL SCIENTISTS CLUSTER CODE 5440

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
040.061-038	HORTICULTURIST	8	0	--	N.A.
041.061-030	BIOLOGIST	10	3	3.33	9.13

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: PSYCHOLOGISTS

CLUSTER CODE 5500

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
PSYCHOLOGISTS	10180600	654	662	672	10	7	17							
TOTALS		654	662	672	10	7	17							

SUPPLY:

NO SUPPLY REPORT

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STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: PSYCHOLOGISTS — CLUSTER CODE 5500

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
045.107-022	PSYCHOLOGIST, CLINICAL	1	5	0.20	4.80
045.107-026	PSYCHOLOGIST, COUNSELING	6	1	6.00	10.74

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STATEWIDE
CLUSTER TITLE: SOCIAL WORK

CLUSTER CODE 5600

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CASEWORKERS	10243401	3398	3409	3441	32	85	117							
WELFARE INVESTIGATORS	10243404	373	377	378	1	4	5							
COMMUNITY ORGANIZATION	10243405	766	752	758	6	19	25							
ELIGIBILITY WORKERS, WEL	40061000	543	545	545	0	6	6							
TOTALS		5080	5083	5122	39	114	153							
SUPPLY:														
SOCIAL WORK, GENERAL	44.0701										3			3
TOTALS											3			3

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: SOCIAL WORK CLUSTER CODE 5600

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
168.267-062	INVESTIGATOR	5	1	5.00	10.74
195.107-010	CASEWORKER	460	111	4.14	6.89
195.107-014	CASEWORKER, CHILD WELFARE	5	0	--	N.A.
195.107-018	CASEWORKER, FAMILY	6	1	6.00	5.68
195.107-022	SOCIAL GROUP WORKER	109	40	2.72	6.47
195.107-026	SOCIAL WORKER, DELINQUENC	8	6	1.33	6.12
195.107-030	SOCIAL WORKER, MEDICAL	31	7	4.43	7.71
195.107-034	SOCIAL WORKER, PSYCHIATRI	116	27	4.30	7.53
195.137-010	CASEWORK SUPERVISOR	3	6	0.50	7.48
195.164-010	GROUP WORKER	32	17	1.88	4.27
195.167-010	COMMUNITY ORGANIZATION WO	39	8	4.88	6.11
195.167-034	PROBATION OFFICER	28	2	14.00	7.50
195.267-010	ELIGIBILITY WORKER	21	25	0.84	6.65
195.267-014	HUMAN RELATIONS OR DRUG A	27	17	1.59	5.88

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STATEWIDE
CLUSTER TITLE: SOCIAL SCIENTISTS

CLUSTER CODE 5610

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ECONOMISTS	10180202	66	68	68	0	1	1							
MARKET RESEARCH ANALYST	10180205	91	102	106	4	1	5							
SOCIOLOGISTS	10180800	17	17	17	0	0	0							
URBAN AND REGIONAL PLAN	10181000	108	111	113	2	2	4							
ALL OTHER SOCIAL SCIENT	10181200	169	173	175	2	5	7							
TOTALS		451	471	479	8	9	17							
SUPPLY:														
URBAN PLANNING TECHNOLOGY	15.0204										1			1
TOTALS											1			1

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ANALYSIS INFORMATION

STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: SOCIAL SCIENTISTS CLUSTER CODE 5610

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
050.067-010	ECONOMIST	8	2	4.00	9.29
050.067-014	MARKET-RESEARCH ANALYST 1	20	3	6.67	4.84
199.167-014	URBAN PLANNER	8	1	8.00	9.62

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: CLERGY

CLUSTER CODE 5620

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CLERGY	10241000	108	107	109	2	7	9							
DIRECTORS, REL ACT &/OR	10241200	58	56	55	-1	3	2							
TOTALS		166	163	164	1	10	11							

SUPPLY:

NO SUPPLY REPORT

NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: EDUCATION

CLUSTER CODE 5700

- OCCUPATION/PROGRAM -	CODE	1985	1987	1988	(ESTIMATED	'87-'88)		PUBLIC	PUBLIC	PRIVATE	JTPA/	APPRE-	MILIT-	TOTAL
TITLE		EMPL	EMPL	EMPL	GROWTH	REPLAC	OPEN	SECOND	P. SEC	P. SEC	OJT	TICE	ARY	
DEMAND DATA:														
TEACHERS,ADULT EDUCATIO	10201000	1804	1775	1768	-7	92	85							
TEACHERS,VOCATIONAL ED	10202001	613	610	613	3	32	35							
TEACHERS,COLLEGE	10202002	4618	4577	4571	-6	119	113							
GRADUATE ASSISTANTS	10202003	7493	7426	7416	-10	193	183							
PROFESSORS	10202005	3018	2991	2987	-4	78	74							
ASSOC. PROFESSORS	10202006	2459	2437	2434	-3	63	60							
ASST. PROFESSORS	10202007	2805	2780	2776	-4	72	68							
LECTURERS	10202008	143	142	141	-1	4	3							
ATHLETIC COACHES	10202009	222	220	220	0	11	11							
PRESCH. &/OR ELEM. SCH.	10203002	21524	21465	21492	27	644	671							
TEACHERS,SECONDARY	10205000	20724	20671	20685	14	413	427							
DANCE INSTRUCTORS	10206001	61	65	67	2	3	5							
INSTRUCTORS,AUTO DRIVIN	10206002	2	2	2	0	0	0							
ALL OTHER TEACHERS	10206099	89	88	90	2	5	7							
SPORTS INSTRUCTORS	10220403	227	238	243	5	2	7							
HOME ECONOMISTS	10241801	6	6	6	0	0	0							
VOCATIONAL & EDUC COUNS	10243600	2353	2349	2369	20	40	60							
CURRICULUM SPECIALISTS	10243801	161	160	160	0	8	8							
INSTRUCTORS,APPAREL & T	50144815	18	18	18	0	1	1							
TOTALS		68340	68020	68058	38	1780	1818							
SUPPLY:														
ADULT AND CONTINUING EDUCA	13.1201									7				7
EDUCATION, OTHER	13.9999										1			1
TOTALS										7	1			8

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STATEWIDE — IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: EDUCATION — CLUSTER CODE 5700

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
045.107-010	COUNSELOR	416	69	6.03	5.87
045.107-038	RESIDENCE COUNSELOR	18	6	3.00	5.14
045.107-042	VOCATIONAL-REHABILITATION	6	2	3.00	6.32
090.227-010	FACULTY MEMBER, COLLEGE O	84	40	2.10	9.59
090.227-014	GRADUATE ASSISTANT	5	0	--	N.A.
091.221-010	TEACHER, INDUSTRIAL ARTS	5	0	--	N.A.
091.227-010	TEACHER, SECONDARY SCHOOL	486	21	23.14	5.40
092.227-010	TEACHER, ELEMENTARY SCHOO	438	11	39.82	3.86
092.227-018	TEACHER, PRESCHOOL	107	33	3.24	3.80
094.227-022	TEACHER, MENTALLY RETARDE	8	8	1.00	4.67
097.227-014	INSTRUCTOR, VOCATIONAL TR	32	20	1.60	7.25
099.224-010	INSTRUCTOR, PHYSICAL EDUC	37	4	9.25	3.75
099.227-010	CHILDREN'S TUTOR	1	800	0.00	5.63
099.227-030	TEACHER, ADULT EDUCATION	5	4	1.25	8.36
099.227-034	TUTOR	1	7	0.14	6.71
149.021-010	TEACHER, ART	23	1	23.00	3.35
151.027-014	INSTRUCTOR, DANCING	2	5	0.40	4.00
152.021-010	TEACHER, MUSIC	25	0	--	N.A.
153.227-018	INSTRUCTOR, SPORTS	2	11	0.18	5.71

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STATEWIDE
CLUSTER TITLE: ARCHITECTS

CLUSTER CODE 5800

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE-TICE	MILIT-ARY	TOTAL
DEMAND DATA:														
ARCHITECTS	10240400	386	389	392	3	9	12							
TOTALS		386	389	392	3	9	12							

SUPPLY:

NO SUPPLY REPORT

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: ARCHITECTS CLUSTER CODE 5800

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
001.061-010	ARCHITECT	6	0	--	N.A.

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STATEWIDE
CLUSTER TITLE: ENGINEER, AERO-ASTRONAUTIC

CLUSTER CODE 5810

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
AERONAUTICAL ENGINEERS	10020200	1	1	1	0	0	0							
TOTALS		1	1	1	0	0	0							

SUPPLY:

NO SUPPLY REPORT

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NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: ENGINEER, CHEMICAL

CLUSTER CODE 5820

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CHEMICAL ENGINEERS	10020400	272	271	267	-4	8	4							
TOTALS		272	271	267	-4	8	4							

SUPPLY:

NO SUPPLY REPORT

NO ANALYSIS

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: ENGINEER, ELECTRICAL

CLUSTER CODE 5830

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
ELECTRICAL ENGINEERS	10020800	2292	2368	2411	43	40	83							
TOTALS		2292	2368	2411	43	40	83							

SUPPLY:

NO SUPPLY REPORT

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ANALYSIS INFORMATION

STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: ENGINEER, ELECTRICAL — CLUSTER CODE 5830

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
003.061-010	ELECTRICAL ENGINEER	20	10	2.00	11.70
003.167-062	SYSTEMS ENGINEER, ELECTRO	12	5	2.40	10.13

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STATEWIDE
CLUSTER TITLE: ENGINEER, MECHANICAL

CLUSTER CODE 5840

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
MECHANICAL ENGINEERS	10021200	1829	1838	1851	13	48	61							
TOTALS		1829	1838	1851	13	48	61							

SUPPLY:

NO SUPPLY REPORT

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: ENGINEER, MECHANICAL CLUSTER CODE 5840

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
007.061-010	AUTOMOTIVE ENGINEER	11	3	3.67	11.70
007.061-014	MECHANICAL ENGINEER	71	34	2.09	10.04

STATEWIDE
CLUSTER TITLE: ENGINEER, INDUSTRIAL

CLUSTER CODE 5850

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
INDUSTRIAL ENGINEERS	10021000	1751	1751	1760	9	26	35							
TOTALS		1751	1751	1760	9	26	35							

SUPPLY:

NO SUPPLY REPORT

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STATEWIDE — IOWA DEPT. OF JOB SERVICE

CLUSTER TITLE: ENGINEER, INDUSTRIAL — CLUSTER CODE 5850

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
012.167-014	DIRECTOR, QUALITY CONTROL	11	1	11.00	7.37
012.167-030	INDUSTRIAL ENGINEER	68	21	3.24	10.81
012.167-042	MANUFACTURING ENGINEER	18	7	2.57	10.84
012.167-050	PRODUCTION PLANNER	30	1	30.00	N.A.
012.167-054	QUALITY-CONTROL ENGINEER	8	0	--	N.A.
012.167-070	TIME-STUDY ENGINEER	10	1	10.00	11.54

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STATEWIDE
CLUSTER TITLE: ENGINEER, CIVIL

CLUSTER CODE 5860

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED '87-'88) GROWTH	REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
CIVIL ENGINEERS	10020600	1628	1638	1648	10	44	54							
TRAFFIC ENGINEERS	10022003	15	15	16	1	0	1							
TOTALS		1643	1653	1664	11	44	55							

SUPPLY:

NO SUPPLY REPORT

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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: ENGINEER, CIVIL CLUSTER CODE 5860

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
005.061-014	CIVIL ENGINEER	42	7	6.00	11.01

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SUPPLY-DEMAND REPORT

STATEWIDE
CLUSTER TITLE: ENGINEER, OTHER

CLUSTER CODE 5870

- OCCUPATION/PROGRAM - TITLE	CODE	1985 EMPL	1987 EMPL	1988 EMPL	(ESTIMATED GROWTH	'87-'88) REPLAC	OPEN	PUBLIC SECOND	PUBLIC P. SEC	PRIVATE P. SEC	JTPA/ OJT	APPRE- TICE	MILIT- ARY	TOTAL
DEMAND DATA:														
METALLURGISTS & MET ENG	10021400	74	78	80	2	5	7							
MINING ENGINEERS	10021600	2	2	2	0	0	0							
NUCLEAR ENGINEERS	10022004	5	5	5	0	0	0							
AGRICULTURAL ENGINEERS	10022005	9	9	9	0	0	0							
ALL OTHER ENGINEERS	10022099	814	809	813	4	18	22							
TOTALS		904	903	909	6	23	29							

SUPPLY:

NO SUPPLY REPORT

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IOWA OCCUPATIONAL INFORMATION NETWORK
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STATEWIDE IOWA DEPT. OF JOB SERVICE
CLUSTER TITLE: ENGINEER, OTHER CLUSTER CODE 5870

CODE	TITLE	TOTAL J.S. APPLICANTS	TOTAL J.S. OPENINGS	RATIO J.S. APPS/OPEN	AVG. HRWAGE
019.167-014	PROJECT ENGINEER	8	3	2.67	8.17

IV. CLUSTER INDICES

LISTING OF CLUSTER CODES AND TITLES

CLUSTER #	CLUSTER TITLES
0100	COMPUTER SYSTEMS ANALYSIS
0110	COMPUTER PROGRAMMING
0120	COMPUTER OPERATION
0130	DATA ENTRY OPERATION
0200	AGRICULTURAL BUSINESS
0210	AGRICULTURAL MECHANICS
0230	AGRICULTURAL PRODUCTION
0270	AGRICULTURAL PROCESSING
0280	AGRICULTURAL SERVICES
0300	HORTICULTURE & LANDSCAPE
0330	CONSERVATION
0340	FORESTRY
0350	GENERAL ADMINISTRATION
0360	ADVANCED ACCOUNTING
0370	ACCOUNTING & BOOKKEEPING
0380	FINANCIAL SERVICES
0390	BANKING SERVICES
0400	OFFICE SUPERVISION & MGT.
0410	EDUCATIONAL ASSISTING
0420	PERSONNEL ASSISTING
0430	SECRETARIAL - STENOGRAPHIC
0440	LEGAL SCCRETARIAL
0450	MEDICAL SECRETARIAL
0460	TYPING
0470	GENERAL OFFICE CLERICAL
0480	SHIPPING, RECEIVING & STOCK
0490	MISCELLANEOUS CLERICAL
0500	HOTEL - MOTEL MANAGEMENT
0510	RECREATION & TOURISM
0530	TRANSPORTATION MANAGEMENT
0540	REAL ESTATE SERVICES
0580	BUSINESS & PERSONAL SERVICES
0610	FOOD STORE MARKETING
0630	INDUSTRIAL MARKETING
0650	WHOLESALE & RETAIL MARKETING
0670	BUILDING MATERIALS MARKETING
0680	FLORISTRY
0690	FASHION MERCHANDISING
0700	COMMERCIAL PHOTOGRAPHY
0720	INSURANCE MARKETING
0760	AUTOMOTIVE MARKETING
0770	SERVICE STATION RETAILING
0780	VEHICLE RENTAL & LEASING
0790	ADVERTISING SERVICES
0800	DENTAL ASSISTING
0810	DENTAL HYGIENE
0820	DENTAL LABORATORY TECHNOLOGY
0840	ELECTROCARDIOGRAPH TECH
0850	ELECTROENCEPHALOGRAPH TECH
0860	EMERGENCY MEDICAL TECHNOLOGY
0880	RADIOGRAPHIC MEDICAL TECH
0890	RESPIRATORY THERAPY TECH

LISTING OF CLUSTER CODES AND TITLES (CON´T)

CLUS:NO	CLUSTER TITLES
0900	SURGICAL TECHNOLOGY
0910	MEDICAL LABORATORY TECH
0960	HEALTH & HUMAN SERVICES
0980	MEDICAL ASSISTING
1010	MEDICAL RECORDS
1020	PHARMACY ASSISTING
1040	NURSING ASSISTING
1050	LICENSED PRACTICAL NURSING
1060	OPTOMETRIC ASSISTING
1080	REHABILITATION THERAPY
1110	OCCUPATIONAL THERAPY
1130	ORTHOPEDIC ASSISTING
1150	PHYSICAL THERAPY
1170	AUDIOLOGY & SPEECH PATHOLOGY
1180	NURSING
1190	HEALTH SCIENCES ADMIN
1200	CHILD CARE MANAGEMENT
1210	CHILD CARE ASSISTING
1220	CLOTHIHG & APPAREL
1230	TAILORING & ALTERATION
1240	TEXTILE PRODUCTION
1250	BAKING
1260	FOOD PRODUCTION & SERVICE
1270	DIETETIC ASSISTING
1280	BARTENDING
1290	HOME FURNISHINGS
1300	INTERIOR DESIGN
1320	MISCELLANEOUS PUBLIC SERVICE
1340	COMMUNICATIONS
1350	EDUCATIONAL MEDIA
1360	RADIO & TV TECHNOLOGY
1370	MORTUARY SERVICES
1400	CIVIL TECHNOLOGY
1410	ELECTRICAL & ELECTRONIC TECH
1420	COMPUTER & BUS ELECTRONICS
1430	BIOMEDICAL EQUIPMENT TECH
1440	ENVIRONMENTAL CONTROL TECH
1450	CHEMICAL MANUFACTURING TECH
1460	ELECTROMECHANICAL TECHNOLOGY
1470	INDUSTRIAL TECHNOLOGY
1510	QUALITY CONTROL TECHNOLOGY
1550	MECHANICAL DESIGN TECHNOLOGY
1580	LEGAL ASSISTING
1590	LIBRARY ASSISTING
1600	MISCELLANEOUS TECHNOLOGY
1620	AIRPLANE PILOTING
1630	AIR TRAFFIC CONTROL
1640	GENERAL SUPERVISION
1650	TRADE & INDUSTRIAL SUPER
1670	FIREFIGHTING
1680	LAW ENFORCEMENT SERVICES
1690	DRYCLEANING

LISTING OF CLUSTER CODES AND TITLES (CON´T)

CLUS:NO	CLUSTER TITLES
1700	BARBERING
1710	COSMETOLOGY
1720	PERSONAL SERVICES
1730	BRICK, BLOCK & STONE MASONRY
1750	CARPENTRY
1760	ELECTRICIAN
1770	LINEWORKER
1780	BUILDING MAINTENANCE & CLEAN
1790	CONCRETE PLACING & FINISHING
1820	FLOOR COVERING & INSTALLATIO
1850	PAINTING & DECORATING
1870	ROOFING
1880	PIPEFITTING & STEAMFITTING
1890	GENERAL CONSTRUCTION TRADES
1900	COMMUNICATIONS ELECTRONICS
1910	SMALL APPLIANCE REPAIR
1920	MOTOR REPAIR
1930	HEATING, A/C & REFRIGERATION
1940	HEAVY EQUIPMENT MECHANICS
1950	INDUSTRIAL MACHINERY MAINTEN
1960	POWER GENERATION
1970	UTILITY SERVICES
1980	GUNSMITHING
2000	MUSICAL INSTRUMENT REPAIR
2010	SHOE REPAIR
2020	WATCH REPAIR
2030	MISCELLANEOUS REPAIR
2040	AIRCRAFT MECHANICS
2050	AUTOMOTIVE REPAIR
2060	AUTOMOTIVE BODY REPAIR
2070	DIESEL MECHANICS
2080	ARCHITECTURAL DRAFTING
2090	CIVIL/STRUCTURAL DRAFTING
2100	DRAFTING, GENERAL
2110	MECHANICAL DRAFTING
2120	MISCELLANEOUS CRAFTS
2130	COMMERCIAL ART
2140	GRAPHIC & PRINTING COMMUNICA
2150	UPHOLSTERING
2160	MEATCUTTING
2170	SLAUGHTERING & BUTCHERING
2180	MISC FOOD PROCESSING
2190	FOUNDRY WORK
2200	PRECISION METAL WORK
2210	TOOL & DIE MAKING
2220	METAL PATTERNMAKING
2230	SHEET METAL
2240	METAL FABRICATION
2250	PLASTICS
2260	JEWELRY WORK
2270	WOODWORKING
2280	WELDING

LISTING OF CLUSTER CODES AND TITLES (CON'T)

CLUS:NO	CLUSTER TITLES
2290	CONSTRUCTION EQUIP OPERATION
2300	MATERIAL HANDLING
2310	MINING & HEAVY EQUIP OPER
2320	TRUCK & BUS DRIVING
2330	VEHICLE OPERATORS
2340	RAILROAD TRANSPORTATION
2350	MARINE TRANSPORTATION
2400	MISCELLANEOUS OPERATIVES
2401	MISC. OPERATIVES (CONTINUED)
2402	MISC. OPERATIVES (CONTINUED)
2403	MISC. OPERATIVES (CONTINUED)
2410	MISCELLANEOUS SERVICE
2420	MISCELLANEOUS LABORERS
5000	PERFORMING ARTS
5010	FINE ARTS
5020	PRINT JOURNALISM
5030	SPORTS
5100	DENTISTS
5110	PHYSICIANS
5120	CHIROPRACTORS
5130	OPTOMETRISTS
5140	PHARMACISTS
5150	DIETICIANS
5160	PODIATRISTS
5170	VETERINARIANS
5180	PHYSICIANS ASSISTING
5200	LAW SERVICES
5300	LIBRARIANS
5400	MATHEMATICIANS
5410	PHYSICAL SCIENTISTS
5420	CHEMISTS
5430	LIFE & PHYSICAL SCIENTISTS
5440	BIOLOGICAL SCIENTISTS
5500	PSYCHOLOGISTS
5600	SOCIAL WORK
5610	SOCIAL SCIENTISTS
5620	CLERGY
5700	EDUCATION
5800	ARCHITECTS
5810	ENGINEER, AERO-ASTRONAUTIC
5820	ENGINEER, CHEMICAL
5830	ENGINEER, ELECTRICAL
5840	ENGINEER, MECHANICAL
5850	ENGINEER, INDUSTRIAL
5860	ENGINEER, CIVIL
5870	ENGINEER, OTHER

LISTING OF CIP CODES AND TITLES BY CLUSTER

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**** CLUSTER: 0100 COMPUTER SYSTEMS ANALYSIS
          07.0306      BUSINESS SYSTEMS ANALYSIS

**** CLUSTER: 0110 COMPUTER PROGRAMMING
          07.0305      BUSINESS DATA PROGRAMMING
          07.0399      BUSINESS DATA PROCESSING AND
          11.0201      COMPUTER PROGRAMMING

**** CLUSTER: 0120 COMPUTER OPERATION
          07.0301      BUSINESS DATA PROCESSING AND
          07.0302      BUSINESS COMPUTER AND CONSOL
          07.0304      BUSINESS DATA PERIPHERAL EQU
          11.0301      DATA PROCESSING

**** CLUSTER: 0130 DATA ENTRY OPERATION
          07.0303      BUSINESS DATA ENTRY EQUIPMEN

**** CLUSTER: 0200 AGRICULTURAL BUSINESS
          01.0101      AG. BUSINESS & MANAG. GENERA
          01.0103      AGRICULTURAL ECONOMICS

**** CLUSTER: 0210 AGRICULTURAL MECHANICS
          01.0201      AGRICULTURAL MECHANICS, GENE
          01.0202      AGRICULTURAL ELECTRIFICATION
          01.0204      AGRICULTURAL POWER MACHINERY

**** CLUSTER: 0230 AGRICULTURAL PRODUCTION
          01.0104      FARM AND RANCH MGT, POWER
          01.0206      SOIL AND WATER MECHANICAL PR
          01.0301      AGRICULTURAL PRODUCTION, GEN
          01.0302      ANIMAL PRODUCTION
          01.0304      CROP PRODUCTION
          01.9900      AGRIBUSINESS AND AGRICULTURA
          02.0202      ANIMAL BREEDING AND GENETICS
          02.0204      ANIMAL NUTRITION
          02.0205      ANIMAL PHYSIOLOGY
          02.0206      DAIRY
          02.0208      LIVESTOCK
          02.0402      AGRONOMY

**** CLUSTER: 0270 AGRICULTURAL PROCESSING
          01.0401      AGRICULTURAL PRODUCTS AND PR
          01.0402      FOOD PRODUCTS
          01.0403      NONFOOD PRODUCTS

**** CLUSTER: 0280 AGRICULTURAL SERVICES
          01.0399      AGRICULTURAL PRODUCTION, OTH
          01.0500      AGRICULTURAL SERVICES AND SU
          01.0501      AGRICULTURAL SERVICES AND SU
          01.0502      AGRICULTURE SERVICES
          01.0503      AGRICULTURAL SUPPLIES MARKET
          01.0504      ANIMAL GROOMING
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            LISTING OF CIP CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 0280 AGRICULTURAL SERVICES (CONTINUED)
          02.0203      ANIMAL HEALTH
          02.0408      PLANT PROTECTION
          02.0504      SOIL MANAGEMENT AND FERTILIT

**** CLUSTER: 0300 HORTICULTURE & LANDSCAPE
          01.0600      HORTICULTURE
          01.0601      HORTICULTURE, GENERAL
          01.0602      ARBORICULTURE
          01.0604      GREENHOUSE OPERATION AND MAN
          01.0605      LANDSCAPING
          01.0606      NURSERY OPERATION AND MANAGE
          01.0607      TURF MANAGEMENT
          02.0403      HORTICULTURE SCIENCE
          02.0404      ORNAMENTAL HOTICULTURE
          02.0410      TURF MANAGEMENT

**** CLUSTER: 0330 CONSERVATION
          02.0503      SOIL CONSERVATION
          03.0101      RENEWABLE NATURAL RESOURCES,
          03.0202      CONSERVATION
          03.0203      RESOURCES PROTECTION AND REG

**** CLUSTER: 0340 FORESTRY
          03.0401      FORESTRY PRODUCTION AND PROC
          03.0402      FOREST PRODUCTION
          03.0403      FOREST PRODUCTS UTILIZATION
          03.0405      LOGGING

**** CLUSTER: 0350 GENERAL ADMINISTRATION
          06.0101      BUSINESS AND MANAGEMENT, GEN
          06.0401      BUSINESS ADMINISTRATION AND
          06.0403      PRODUCT MANAGEMENT
          06.0404      SYSTEMS EFFICIENCY ANALYSIS
          06.0499      BUSINESS ADMINISTRATION AND
          06.1201      MANAGEMENT INFORMATION SYSTE

**** CLUSTER: 0360 ADVANCED ACCOUNTING

**** CLUSTER: 0370 ACCOUNTING & BOOKKEEPING
          06.0200      ACCOUNTING
          06.0201      ACCOUNTING, GENERAL
          06.1901      TAXATION
          07.0101      ACCOUNTING, BOOKKEEPING, AND
          07.0102      ACCOUNTING AND COMPUTING
          07.0103      BOOKKEEPING
          07.0104      MACHINE BILLING, BOOKKEEPING
          07.0199      ACCOUNTING, BOOKKEEPING, AND

**** CLUSTER: 0380 FINANCIAL SERVICES
          07.0203      INSURANCE CLERK
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LISTING OF CIP CODES AND TITLES BY CLUSTER (CON´T)

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**** CLUSTER: 0390 BANKING SERVICES
          06.0301      BANKING AND FINANCE
          07.0201      BANKING AND RELATED FINANCIAL PROGRAMS,G
          07.0202      CREDIT COLLECTION CLERK
          07.0204      LOAN CLERK
          07.0205      TELLER
          08.0401      FINANCIAL SERVICES MARKETING, GENERAL
          08.0402      BANKING MARKETING

**** CLUSTER: 0400 OFFICE SUPERVISION & MGT.
          07.0401      OFFICE SUPERVISION AND MANAG
          43.9999      SUPERVISOR, GOVERNMENT SERVI

**** CLUSTER: 0410 EDUCATIONAL ASSISTING
          07.0502      EDUCATIONAL ASSISTING AND TR

**** CLUSTER: 0420 PERSONNEL ASSISTING
          06.1101      LABOR/INDUSTRIAL RELATIONS
          07.0501      PERSONNEL AND TRAINING PROGR
          07.0503      PERSONNEL ASSISTING

**** CLUSTER: 0430 SECRETARIAL - STENOGRAPHIC
          07.0601      SECRETARIAL AND RELATED PROG
          07.0602      COURT REPORTING
          07.0603      EXECUTIVE SECRETARIAL
          07.0606      SECRETARIAL
          07.0607      STENOGRAPHIC
          07.0699      SECRETARIAL AND RELATED PROG
          08.0702      INDUSTRIAL SALES

**** CLUSTER: 0440 LEGAL SCCRETARIAL
          07.0604      LEGAL SECRETARIAL, GENERAL

**** CLUSTER: 0450 MEDICAL SECRETARIAL
          07.0605      MEDICAL SECRETARIAL, GENERAL

**** CLUSTER: 0460 TYPING
          07.0608      WORD PROCESSING
          07.0702      CLERK-TYPIST
          07.0710      TYPING

**** CLUSTER: 0470 GENERAL OFFICE CLERICAL
          07.0700      TYPING, GENERAL OFFICE, AND
          07.0701      TYPING, GENERAL OFFICE, AND
          07.0704      DUPLICATING MACHINE OPERATIO
          07.0705      GENERAL OFFICE CLERK
          07.0707      RECEPTIONIST AND COMMUNICATI
          07.0799      TYPING, GENERAL OFFICE, AND

**** CLUSTER: 0480 SHIPPING, RECEIVING & STOCK
          07.0706      MAIL AND ORDER CLERK
          07.0708      SHIPPING, RECEIVING, AND STO
          LISTING OF CIP CODES AND TITLES BY CLUSTER (CON'T)

**** CLUSTER: 0480 SHIPPING, RECEIVING & STOCK (CONTINUED)
          07.0709      TRAFFIC, RATE & TRANS. CLERK
          17.0502      CENTRAL SUPPLY TECHNOLOGY

**** CLUSTER: 0490 MISCELLANEOUS CLERICAL

**** CLUSTER: 0500 HOTEL - MOTEL MANAGEMENT
          06.0701      HOTEL/MOTEL MANAGEMENT
          06.0703      RESORT MANAGEMENT
          08.0902      MARKETING OF HOTEL/MOTEL SER

**** CLUSTER: 0510 RECREATION & TOURISM
          06.0702      RECREATIONAL ENTERPRISES MAN
          08.0903      MARKETING OF RECREATIONAL SE
          08.0904      RECREATIONAL PRODUCTS MARKET
          08.1101      TRANSPORTATION AND TRAVEL MA
          08.1103      PASSENGER TRANSPORTATION MAR
          08.1105      TRAVEL SERVICES MARKETING

**** CLUSTER: 0530 TRANSPORTATION MANAGEMENT
          06.0705      TRANSPORTATION MANAGEMENT
          49.0104      AVIATION MANAGEMENT

**** CLUSTER: 0540 REAL ESTATE SERVICES
          06.1701      REAL ESTATE SALES

**** CLUSTER: 0580 BUSINESS & PERSONAL SERVICES
          08.0201      BUSINESS AND PERSONAL SERVIC
          08.0203      MARKETING OF BUSINESS OR PER
          08.0299      BUSINESS & PERSONAL SVS. MAR
          08.0403      CREDIT MARKETING
          08.0404      CREDIT UNION MARKETING
          08.0807      OFFICE PRODUCTS AND EQUIPMEN

**** CLUSTER: 0610 FOOD STORE MARKETING
          08.0502      FARM AND GARDEN SUPPLIES MAR
          08.0601      FOOD MARKETING, GENERAL
          08.0602      CONVENIENCE STORE MARKETING
          08.0603      SPECIALTY FOODS MARKETING
          08.0604      SUPERMARKET MARKETING
          08.0605      WHOLESALE FOOD MARKETING

**** CLUSTER: 0630 INDUSTRIAL MARKETING
          08.0702      INDUSTRIAL SALES

**** CLUSTER: 0650 WHOLESALE & RETAIL MARKETING
          06.1401      MARKETING MANAGEMENT
          06.1801      SMALL BUSINESS MANAGEMENT
          06.9999      BUSINESS AND MANAGEMENT,OTHE
          08.0104      FOOTWEAR MARKETING
          08.0502      FARM AND GARDEN SUPPLIES MAR
          08.0700      GENERAL MERCHANDISE
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LISTING OF CIP CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 0650 WHOLESALE & RETAIL MARKETING (CONTINUED)

08.0701	AUCTIONEERING
08.0703	INTERNATIONAL MARKETING
08.0704	PURCHASING
08.0705	RETAILING
08.0706	SALES
08.0707	WHOLESALING
08.0805	FURNITURE MARKETING
08.1102	FREIGHT TRANSPORATION MARKET
08.1106	WAREHOUSE SERVICES MARKETING
08.1199	TRANSPORTATION AND TRAVEL MA
08.1202	AGRICULTURE IMPLEMENTS AND
08.1205	RECREATIONAL VEHICLE AND ACC
08.9901	EQUIPMENT RENTAL
08.9902	EQUIPMENT RENTAL AND MANAGEM
20.0506	HOME FURNISHING AIDE

**** CLUSTER: 0670 BUILDING MATERIALS MARKETING

08.0803	BUILDING MATERIALS MARKETING
08.0804	FLOOR, COVERINGS, DRAPERIES,
08.0806	HARDWARE MARKETING

**** CLUSTER: 0680 FLORISTRY

01.0603	FLORICULTURE
08.0503	FLORISTRY
20.0504	FLORAL DESIGN

**** CLUSTER: 0690 FASHION MERCHANDISING

08.0102	FASHION MERCHANDISE
08.0103	FASHION MODELING

**** CLUSTER: 0700 COMMERCIAL PHOTOGRAPHY

09.0401	JOURNALISM
48.0204	COMMERCIAL PHOTOGRAPHY
48.0207	PHOTOGRAPHIC LABORATION AND

**** CLUSTER: 0720 INSURANCE MARKETING

08.1001	INSURANCE MARKETING, GENERAL
08.1002	ACCIDENT AND HEALTH INSURANC
08.1003	LIFE INSURANCE MARKETING
08.1004	PROPERTY AND CASUALTY INSURA

**** CLUSTER: 0760 AUTOMOTIVE MARKETING

08.1203	AUTOMOTIVE VEHICLES AND ACCE

**** CLUSTER: 0770 SERVICE STATION RETAILING

08.1204	PERTOLEUM WHOLESALING
08.1206	SERVICE STATION RETAILING

**** CLUSTER: 0780 VEHICLE RENTAL & LEASING

08.1207	VEHICLE RENTAL AND LEASING

LISTING OF CIP CODES AND TITLES BY CLUSTER (CON'T)

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**** CLUSTER: 0790 ADVERTISING SERVICES
       09.0201      ADVERTISING

**** CLUSTER: 0800 DENTAL ASSISTING
       17.0101      DENTAL ASSISTING

**** CLUSTER: 0810 DENTAL HYGIENE
       17.0102      DENTAL HYGIENE

**** CLUSTER: 0820 DENTAL LABORATORY TECHNOLOGY
       17.0103      DENTAL LABORATORY TECHNOLOGY

**** CLUSTER: 0840 ELECTROCARDIOGRAPH TECH
       17.0203      ELECTROCARDIOGRAPH TECHNOLOG

**** CLUSTER: 0850 ELECTROENCEPHALOGRAPH TECH
       17.0204      ELECTROENCEPHALOGRAPH TECHNO

**** CLUSTER: 0860 EMERGENCY MEDICAL TECHNOLOGY
       17.0205      EMERGENCY MEDICAL TECHNOLOGY
       17.0206      EMERGENCY MEDICAL TECHN-PA

**** CLUSTER: 0880 RADIOGRAPHIC MEDICAL TECH
       17.0207      MEDICAL RADIATION DOSIMETRY
       17.0209      RADIOGRAPH MEDICAL TECHNOLOG

**** CLUSTER: 0890 RESPIRATORY THERAPY TECH
       17.0210      RESPIRATORY THERAPY TECHNOLO
       17.0818      RESPIRATORY THERAPY

**** CLUSTER: 0900 SURGICAL TECHNOLOGY
       17.0211      SURGICAL TECHNOLOGY
       17.0603      OBSTERTRICAL TECHNOLOGY

**** CLUSTER: 0910 MEDICAL LABORATORY TECH
       17.0304      CLINICAL LABORARTORY AIDE
       17.0305      CLINICAL LABORATORY ASSISTIN
       17.0306      CYTOTECHNOLOGY
       17.0308      HISTOLOGIC TECHNOLOGY
       17.0309      MEDICAL LABORATORY TECHNOLOG
       17.0310      MEDICAL TECHNOLOGY
       17.0399      MEDICAL LABORATORY TECHNOLOG

**** CLUSTER: 0960 HEALTH & HUMAN SERVICES
       17.0401      ALCOHOL/DRUG ABUSE SPECIALTY
       17.0404      HOME HEALTH AIDE
       17.0405      MENTAL HEALTH/HUMAN SERVICES
       17.0406      MENTAL HEALTH/HUMAN SERVICES
       17.0407      REHABILITATION COUNSELING
       17.0499      TRAINING INTERPRETER (DEAF)
       17.0599      MISCELLANEOUS ALLIED HEALTH
       17.0601      GERIATRIC AIDE
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              LISTING OF CIP CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 0960 HEALTH & HUMAN SERVICES (CONTINUED)
          20.0100      CONSUMER AND HOMEMAKING HOME
          20.0204      FOSTER CARE/FAMILY CARE
          20.0602      COMPANION TO THE AGED
          20.0606      HOMEMAKER´S AIDE
          44.0201      COMMUNITY SERVICES

**** CLUSTER: 0980 MEDICAL ASSISTING
          17.0503      MEDICAL ASSISTING

**** CLUSTER: 1010 MEDICAL RECORDS
          17.0506      MEDICAL RECORDS TECHNOLOGY
          17.0513      WARD CLERK
          17.0606      WARD SERVICE MANAGEMENT

**** CLUSTER: 1040 NURSING ASSISTING
          17.0602      NURSING ASSISTING
          17.0604      PEDIATRIC AIDE

**** CLUSTER: 1050 LICENSED PRACTICAL NURSING
          17.0605      PRACTICAL NURSING

**** CLUSTER: 1060 OPTOMETRIC ASSISTING
          15.0606      OPTICAL TECHNOLOGY
          17.0701      OPHTHALMIC TECHNOLOGY
          17.0704      OPTOMETRIC ASSISTING
          17.0705      OPTOMETRIC TECHNOLOGY
          48.0603      OPTICAL GOODS WORK

**** CLUSTER: 1080 REHABILITATION THERAPY
          17.0816      RECREATIONAL THERAPY
          17.0817      RECREATIONAL THERAPY TECHNOL
          17.0899      REHABILITATION SERVICES, OTH
          20.0607      THERAPEUTIC RECREATION AIDE

**** CLUSTER: 1110 OCCUPATIONAL THERAPY
          17.0808      OCCUPATIONAL THERAPY ASSISTI

**** CLUSTER: 1130     ORTHOPEDIC ASSISTING
          17.0810      ORTHOTIC/PROSTHETIC ASSISTING

**** CLUSTER: 1150 PHYSICAL THERAPY
          17.0813      PHYSICAL THERAPY

**** CLUSTER: 1170 AUDIOLOGY & SPEECH PATHOLOGY
          18.0101      AUDIOLOGY

**** CLUSTER: 1180     NURSING
          18.1101      NURSING, ASSOCIATE DEGREE

**** CLUSTER: 1190 HEALTH SCIENCES ADMIN
          18.0701      HEALTH CARE ADMINISTRATION
          18.0799      HEALTH SCIENCES ADMINISTRATI
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LISTING OF CIP CODES AND TITLES BY CLUSTER (CON´T)

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**** CLUSTER: 1200 CHILD CARE MANAGEMENT
        17.0408      THERAPEUTIC CHILD CARE WORK
        20.0201      CHILD CARE AND GUIDANCE MANA
        20.0203      CHILD CARE MANAGEMENT-HANDIC
        20.0299      CHILD CARE AND GUIDANCE MANA

**** CLUSTER: 1210 CHILD CARE ASSISTING
        20.0202      CHILD CARE AIDE/ASSISTING
        20.0205      TEACHER AIDE
        20.9999      VOCATIONAL HOME ECONOMICS, O

**** CLUSTER: 1220 CLOTHIHG & APPAREL
        20.0301      CLOTHING, APPAREL, & TEXTILE
        20.0302      CLOTHING MAINTENANCE AIDE
        20.0303      COMMERCIAL GARMENT AND APPAR
        20.0304      CUSTOM APPAREL/GARMENT SEAMS
        20.0306      CUSTOM ALTERATION
        20.0399      CLOTHING, APPAREL, & TEXTILE

**** CLUSTER: 1230 TAILORING & ALTERATION
        20.0305      CUSTOM TAILORING AND ALTERAT

**** CLUSTER: 1240 TEXTILE PRODUCTION
        15.0609      TEXTILE TECHNOLOGY

**** CLUSTER: 1250 BAKING
        20.0402      BAKING

**** CLUSTER: 1260 FOOD PRODUCTION & SERVICE
        06.0704      RESTRAURANT MANAGEMENT
        08.0905      WAITER/WAITRESS AND RELATED
        20.0401      FOOD PRODUCTION, MANAGEMENT,
        20.0403      CHEF/COOK
        20.0405      FOOD CATERING
        20.0406      FOOD SERVICE
        20.0407      FOOD TESTING
        20.0408      SCHOOL FOOD SERVICE
        20.0499      FOOD PRODUCTION, MANAGEMENT,

**** CLUSTER: 1270 DIETETIC ASSISTING
        20.0404      DIETETIC AIDE/ASSISTING

**** CLUSTER: 1280 BARTENDING
        12.0202      BARTENDING

**** CLUSTER: 1290 HOME FURNISHINGS
        20.0501      HOME FURNISHINGS & EQUIP. MG
        20.0502      CUSTOM DRAPERY AND WINDOW TR
        20.0503      CUSTOM SLIPCOVERING & UPHOLS

**** CLUSTER: 1300 INTERIOR DESIGN
        04.0501      INTERIOR DESIGN
        20.0505      HOME DECORATING AND DESIGNIN
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LISTING OF CIP CODES AND TITLES BY CLUSTER (CON´T)

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**** CLUSTER: 1320 MISCELLANEOUS PUBLIC SERVICE

**** CLUSTER: 1340 COMMUNICATIONS

**** CLUSTER: 1350 EDUCATIONAL MEDIA
          10.0101      EDUCATIONAL MEDIA TECHNOLOGY
          13.0501      EDUCATIONAL MEDIA

**** CLUSTER: 1370 MORTUARY SERVICES

**** CLUSTER: 1400 CIVIL TECHNOLOGY
          15.0201      CIVIL TECHNOLOGY
          15.0203      SURVEYING AND MAPPING TECHNO

**** CLUSTER: 1410 ELECTRICAL & ELECTRONIC TECH
          15.0301      COMPUTER TECHNOLOGY
          15.0302      ELECTRICAL TECHNOLOGY
          15.0303      ELECTRONIC TECHNOLOGY
          15.0304      LASER ELECTRO-OPTICS TECHNOL
          47.0101      ELECTRONICS OCCUPATIONS
          47.0105      INDUSTRIAL ELECTRONICS

**** CLUSTER: 1420 COMPUTER & BUS ELECTRONICS
          15.0402      COMPUTER SERVICING TECHNOLOG
          47.0102      BUSINESS MACHINE REPAIR
          47.0104      COMPUTER ELECTRONICS

**** CLUSTER: 1430 BIOMEDICAL EQUIPMENT TECH
          15.0401      BIOMEDICAL EQUIPMENT TECHNOL

**** CLUSTER: 1440 ENVIRONMENTAL CONTROL TECH
          15.0506      WATER AND WASTEWATER TECHNOL

**** CLUSTER: 1450 CHEMICAL MANUFACTURING TECH
          15.0601      CHEMICAL MANUFACTURING TECHN

**** CLUSTER: 1460 ELECTROMECHANICAL TECHNOLOGY
          15.0403      ELECTROMECHANICAL TECHNOLOGY
          15.0404      INSTRUMENTATION TECHNOLOGY
          15.0499      ELECTROMECHANICAL INSTRUMENT

**** CLUSTER: 1470 INDUSTRIAL TECHNOLOGY
          15.0602      FOOD PROCESSING TECHNOLOGY
          15.0603      INDUSTRIAL TECHNOLOGY
          15.0604      MANUFACTURING TECHNOLOGY

**** CLUSTER: 1510 QUALITY CONTROL TECHNOLOGY
          15.0702      QUALITY CONTROL TECHNOLOGY

**** CLUSTER: 1550 MECHANICAL DESIGN TECHNOLOGY
          15.0805      MECHANICAL DESIGN TECHNOLOGY
          15.0806      SERVICE MANAGER TECHNOLOGY
          15.0807      POWER MECHANICS TECHNOLOGY
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LISTING OF CIP CODES AND TITLES BY CLUSTER (CON´T)

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**** CLUSTER: 1580 LEGAL ASSISTING
        22.0103      LEGAL ASSISTING

**** CLUSTER: 1590 LIBRARY ASSISTING
        25.0301      LIBRARY ASSISTING

**** CLUSTER: 1600 MISCELLANEOUS TECHNOLOGY
        15.0611      BIOTECHNOLOGY
        17.0303      CLINICAL ANIMAL TECHNOLOGY

**** CLUSTER: 1620 AIRPLANE PILOTING
        49.0102      AIRPLANE PILOTING AND NAVIGA

**** CLUSTER: 1630 AIR TRAFFIC CONTROL
        49.0105      AIR TRAFFIC CONTROL

**** CLUSTER: 1640 GENERAL SUPERVISION

**** CLUSTER: 1650 TRADE & INDUSTRIAL SUPER
        06.2001      TRADE AND INDUSTRIAL SUPERVI

**** CLUSTER: 1670 FIREFIGHTING
        43.0201      FIRE CONTROL AND SAFETY TECH
        43.0203      FIREFIGHTING

**** CLUSTER: 1680 LAW ENFORCEMENT SERVICES
        43.0102      CORRECTIONS
        43.0105      CRIMINAL JUSTICE TECHNOLOGY
        43.0107      LAW ENFORCEMENT
        43.0109      SECURITY SERVICES
        43.0199      CRIMINAL JUSTICE, OTHER

**** CLUSTER: 1690 DRYCLEANING
        12.0101      DRYCLEANING AND LAUNDERING S
        12.0102      DRYCLEANING
        12.0103      LAUNDERING

**** CLUSTER: 1700 BARBERING
        12.0402      BARBERING

**** CLUSTER: 1710 COSMETOLOGY
        12.0403      COSMETOLOGY
        12.0404      ELECTROLYSIS

**** CLUSTER: 1720 PERSONAL SERVICES
        12.0401      PERSONAL SERVICES, GENERAL

**** CLUSTER: 1730 BRICK, BLOCK & STONE MASONRY
        46.0101      BRICKMASONRY, STONEMASONRY
        46.0102      BRICK, BLOCK, AND STONEMASON

**** CLUSTER: 1750 CARPENTRY
        46.0201      CARPENTRY
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**** CLUSTER: 1760 ELECTRICIAN
       46.0301      ELECTRICAL AND POWER TRANSMI
       46.0302      ELECTRICIAN

**** CLUSTER: 1770 LINEWORKER
       46.0303      LINEWORKER

**** CLUSTER: 1780 BUILDING MAINTENANCE & CLEAN
       20.0601      INSTITUTIONAL, HOME MANAGEME
       20.0604      CUSTODIAL SERVICES
       20.0605      EXECUTIVE HOUSEKEEPING
       46.0401      BUILDING MAINTENANCE

**** CLUSTER: 1790 CONCRETE PLACING & FINISHING
       46.0402      CONCRETE PLACING AND FINISHI

**** CLUSTER: 1820 FLOOR COVERING & INSTALLATIO
       46.0405      FLOOR COVERING INSTALLATION

**** CLUSTER: 1850 PAINTING & DECORATING
       46.0408      PAINTING AND DECORATING

**** CLUSTER: 1870 ROOFING
       46.0410      ROOFING

**** CLUSTER: 1880 PIPEFITTING & STEAMFITTING
       46.0501      PLUMBING, PIPEFITTING, AND S
       46.0502      PIPEFITTING AND STEAMFITTING
       46.0503      PLUMBING

**** CLUSTER: 1890 GENERAL CONSTRUCTION TRADES
       01.0205      AGRICULTURAL STRUCTURES, EQU
       46.0103      TILE SETTING
       46.0404      DRYWALL INSTALLATION
       46.0406      GLAZING
       46.0407      INSULATION INSTALLATION
       46.0409      PLASTERING
       46.0411      TERRAZZO INSTALLATION
       46.0499      MISC. CONSTRUCTION TRADES, O
       46.9999      CONSTRUCTION TRADES, OTHER

**** CLUSTER: 1900 COMMUNICATIONS ELECTRONICS
       47.0103      COMMUNICATION ELECTRONICS

**** CLUSTER: 1910 SMALL APPLIANCE REPAIR
       47.0106      MAJOR APPLIANCE REPAIR
       47.0108      SMALL APPLIANCE REPAIR

**** CLUSTER: 1920 MOTOR REPAIR
       47.0107      MOTOR REPAIR
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LISTING OF CIP CODES AND TITLES BY CLUSTER (CON´T)

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**** CLUSTER: 1930 HEATING, A/C & REFRIGERATION
        15.0501      AIR CONDITIONING, HEATING, A
        15.0502      AIR POLLUTION CONTROL TECHNO
        15.0503      ENERGY CONSERVATION AND USE
        15.0505      SOLAR HEATING AND COOLING TE
        47.0201      HEATING, AIR CONDITIONING, &
        47.0202      COOLING AND REFRIGERATION
        47.0203      HEATING AND AIR CONDITIONING
        47.0299      VENTILATION

**** CLUSTER: 1940 HEAVY EQUIPMENT MECHANICS
        47.0302      HEAVY EQUIPMENT MAINTENANCE
        47.0304      MINE EQUIPMENT MAINTENANCE &

**** CLUSTER: 1950 INDUSTRIAL MACHINERY MAINTEN
        47.0303      INDUSTRIAL MACHINERY MAINTEN

**** CLUSTER: 1960 POWER GENERATION
        41.0202      NUCLEAR POWER PLANT OPERATIO
        41.0203      NUCLEAR POWER PLANT RADIATIO
        47.0501      STATIONARY ENERGY SOURCES, G
        47.0502      CONVENTIONAL ELECTRIC POWER
        47.0503      INDUSTRIAL NUCLEAR ENERGY

**** CLUSTER: 1970 UTILITY SERVICES
        47.0504      PUMPING PLANTS

**** CLUSTER: 1980 GUNSMITHING
        47.0402      GUNSMITHING

**** CLUSTER: 2000 MUSICAL INSTRUMENT REPAIR
        47.0404      MUSICAL INSTRUMENT REPAIR

**** CLUSTER: 2010 SHOE REPAIR
        47.0406      SHOE AND BOOT REPAIR

**** CLUSTER: 2020 WATCH REPAIR
        47.0408      WATCH REPAIR

**** CLUSTER: 2030 MISCELLANEOUS REPAIR
        47.0109      VENDING AND RECREATIONAL MAC
        47.0401      ELECTROMECHANICAL, HYDRAULIC
        47.0403      LOCKSMITH AND SAFE REPAIR
        47.0405      OPER.,MAINT. & REPAIR OF A-V
        47.0407      SPORTING GOODS EQUIPMENT REP
        47.0499      MISCELLANEOUS MECHANICS AND
        47.0601      VEHICLE AND MOBILE EQUIPMENT
        47.0606      SMALL ENGINE REPAIR
        47.9999      MECHANICS AND REPAIRERS, OTH

**** CLUSTER: 2040 AIRCRAFT MECHANICS
        47.0602      AIRCRAFT MECHANICS
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                LISTING OF CIP CODES AND TITLES BY CLUSTER (CON'T)

**** CLUSTER: 2050 AUTOMOTIVE REPAIR
          15.0803      AUTOMOTIVE TECHNOLOGY
          47.0601      VEHICLE AND MOBILE EQUIPMENT
          47.0604      AUTOMOTIVE MECHANIC
          47.0699      VEHICLE MECHANICS SPECIALIZA

**** CLUSTER: 2060 AUTOMOTIVE BODY REPAIR
          47.0603      AUTOMOTIVE BODY REPAIR

**** CLUSTER: 2070 DIESEL MECHANICS
          47.0605      DIESEL ENGINE MECHANIC

**** CLUSTER: 2080 ARCHITECTURAL DRAFTING
          15.0101      ARCHITECTURAL DESIGN AND CON
          48.0102      ARCHITECTURAL DRAFTING

**** CLUSTER: 2090 CIVIL/STRUCTURAL DRAFTING
          48.0103      CIVIL/STRUCTURAL DRAFTING

**** CLUSTER: 2100 DRAFTING, GENERAL
          15.0202      DRAFTING AND DESIGN TECHNOLO
          48.0101      DRAFTING, GENERAL
          48.0104      ELECTRICAL/ELECTRONICS DRAFT

**** CLUSTER: 2110 MECHANICAL DRAFTING
          48.0105      MECHANICAL DRAFTING

**** CLUSTER: 2120 MISCELLANEOUS CRAFTS

**** CLUSTER: 2130 COMMERCIAL ART
          48.0203      COMMERCIAL ART

**** CLUSTER: 2140 GRAPHIC & PRINTING COMMUNICA
          23.1101      TECHNICAL AND BUSINESS WRITI
          48.0201      GRAPHIC AND PRINTING COMMUNI
          48.0202      BOOKBINDING
          48.0205      COMPOSITION, MAKE-UP, AND TY
          48.0206      LITHOGRAPHY, PHOTOGRAPHY, AN
          48.0208      PRINTING PRESS OPERATIONS
          48.0209      SILK SCREEN MAKING & PRINTIN
          50.0801      GRAPHICS ARTS TECHNOLOGY

**** CLUSTER: 2150 UPHOLSTERING
          48.0303      UPHOLSTERING

**** CLUSTER: 2160 MEATCUTTING
          48.0402      MEATCUTTING

**** CLUSTER: 2170 SLAUGHTERING & BUTCHERING
          48.0403      SLAUGHTERING AND BUTCHERING

**** CLUSTER: 2180 MISC FOOD PROCESSING
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**** CLUSTER: 2190 FOUNDRY WORK
       48.0502      FOUNDRY WORK

**** CLUSTER: 2200 PRECISION METAL WORK
       15.0699      COMPUTER PROGRAMMING-NUMERIC
       48.0501      PRECISION METAL WORK, GENERA
       48.0503      MACHINE TOOL OPERATION/MACHI
       48.0599      PRECISION METAL WORK, OTHER

**** CLUSTER: 2210 TOOL & DIE MAKING
       48.0507      TOOL AND DIE MAKING

**** CLUSTER: 2220 METAL PATTERNMAKING
       48.0505      METAL PATTERNMAKING

**** CLUSTER: 2230 SHEET METAL
       48.0506      SHEET METAL, GENERAL

**** CLUSTER: 2240 METAL FABRICATION
       48.0504      METAL FABRICATION

**** CLUSTER: 2250 PLASTICS
       48.0604      PLASTICS

**** CLUSTER: 2260 JEWELRY WORK
       48.0602      JEWELRY DESIGN, FABRICATION,

**** CLUSTER: 2270 WOODWORKING
       48.0701      WOODWORKING, GENERAL
       48.0702      FURNITURE MAKING
       48.0703      MILLWORK AND CABINET MAKING

**** CLUSTER: 2280 WELDING
       48.0508      WELDING, BRAZING, AND SOLDER

**** CLUSTER: 2290 CONSTRUCTION EQUIP OPERATION
       49.0202      CONSTRUCTION EQUIPMENT OPERA

**** CLUSTER: 2300 MATERIAL HANDLING
       49.0203      MATERIAL HANDLING
       49.9999      TRANSPORTATION AND MATERIAL

**** CLUSTER: 2310 MINING & HEAVY EQUIP OPER
       49.0204      MINING EQUIPMENT OPERATION

**** CLUSTER: 2320 TRUCK & BUS DRIVING
       49.0205      TRUCK AND BUS DRIVING

**** CLUSTER: 2330 VEHICLE OPERATORS
       49.0201      VEHICLE AND EQUIPMENT OPERAT

**** CLUSTER: 2340 RAILROAD TRANSPORTATION
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LISTING OF CIP CODES AND TITLES BY CLUSTER (CON'T)

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**** CLUSTER: 2350 MARINE TRANSPORTATION
        15.0804      MARINE PROPULSION TECHNOLOGY
        49.0302      BARGE AND BOAT OPERATION
        49.0306      MARINE MAINTENANCE
        49.0308      SAILORS AND DECKHANDS

**** CLUSTER: 2400 MISCELLANEOUS OPERATIVES
        21.0101      INDUSTRIAL ARTS, GENERAL
        48.0601      INDUSTRIAL CERAMICS MANUFACT
        48.9999      PRECISION PRODUCTION, OTHER

**** CLUSTER: 2401 MISC. OPERATIVES (CONTINUED)

**** CLUSTER: 2402 MISC. OPERATIVES (CONTINUED)

**** CLUSTER: 2403 MISC. OPERATIVES (CONTINUED)

**** CLUSTER: 2410 MISCELLANEOUS SERVICE

**** CLUSTER: 2420 MISCELLANEOUS LABORERS
        xx.xxxx      TRAINING, OTHER

**** CLUSTER: 5000 PERFORMING ARTS
        50.0301      DANCE

**** CLUSTER: 5010 FINE ARTS

**** CLUSTER: 5020 PRINT JOURNALISM

**** CLUSTER: 5030 SPORTS

**** CLUSTER: 5100 DENTISTS

**** CLUSTER: 5110 PHYSICIANS

**** CLUSTER: 5120 CHIROPRACTORS

**** CLUSTER: 5130 OPTOMETRISTS

**** CLUSTER: 5140 PHARMACISTS

**** CLUSTER: 5150 DIETICIANS

**** CLUSTER: 5160 PODIATRISTS

**** CLUSTER: 5170 VETERINARIANS
        17.0511      VETERINARIAN AIDE
        17.0512      VETERINARIAN ASSISTING

**** CLUSTER: 5200 LAW SERVICES

**** CLUSTER: 5300 LIBRARIANS
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LISTING OF CIP CODES AND TITLES BY CLUSTER (CON´T)

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**** CLUSTER: 5400 MATHEMATICIANS

**** CLUSTER: 5410 PHYSICAL SCIENTISTS

**** CLUSTER: 5420 CHEMISTS

**** CLUSTER: 5430 LIFE & PHYSICAL SCIENTISTS

**** CLUSTER: 5440 BIOLOGICAL SCIENTISTS

**** CLUSTER: 5500 PSYCHOLOGISTS

**** CLUSTER: 5600 SOCIAL WORK
        44.0701      SOCIAL WORK, GENERAL

**** CLUSTER: 5610 SOCIAL SCIENTISTS
        15.0204      URBAN PLANNING TECHNOLOGY

**** CLUSTER: 5620 CLERGY

**** CLUSTER: 5700 EDUCATION
        13.1201      ADULT AND CONTINUING EDUCATI
        13.9999      EDUCATION, OTHER

**** CLUSTER: 5800 ARCHITECTS

**** CLUSTER: 5810 ENGINEER, AERO-ASTRONAUTIC

**** CLUSTER: 5820 ENGINEER, CHEMICAL

**** CLUSTER: 5830 ENGINEER, ELECTRICAL
        14.1001      ELECTRICAL, ELECTRONICS, AND

**** CLUSTER: 5840 ENGINEER, MECHANICAL

**** CLUSTER: 5850 ENGINEER, INDUSTRIAL

**** CLUSTER: 5860 ENGINEER, CIVIL

**** CLUSTER: 5870 ENGINEER, OTHER
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           LISTING OF OES CODES AND TITLES BY CLUSTER

**** CLUSTER: 0100 COMPUTER SYSTEMS ANALYSIS
          10160400     SYSTEMS ANALYSTS,EDP

**** CLUSTER: 0110 COMPUTER PROGRAMMING
          10160200     COMPUTER PROGRAMMERS

**** CLUSTER: 0120 COMPUTER OPERATION
          40040601     COMPUTER OPERATORS
          40040602     PERIPHERAL EDP EQPT OPERAT

**** CLUSTER: 0130 DATA ENTRY OPERATION
          40041000     KEYPUNCH OPERATORS
          40066812     IN-FILE OPERATORS

**** CLUSTER: 0200 AGRICULTURAL BUSINESS
          10202004     EXTENSION SERVICE SPECIALI
          10241400     COUNTY AGRIC. SPECIALISTS

**** CLUSTER: 0210 AGRICULTURAL MECHANICS
          50060200     BLACKSMITHS
          50081600     FARM EQUIPMENT MECHANICS

**** CLUSTER: 0230 AGRICULTURAL PRODUCTION
          61086218     FARM EQUIPMENT OPERATORS
          90000473     FARMERS, EXC HORTICULTURE
          90000475     MANAGERS, FARMS EXC HORTICUL
          90000477     SUPERVISORS, FARM WORKERS
          90000479     FARM WORKERS
          90000483     MARINE LIFE CULTIVATION WORK
          90000485     SUPERVISORS, RELATED AG OCCU
          90000498     FISHERS
          90000499     HUNTERS AND TRAPPERS

**** CLUSTER: 0270 AGRICULTURAL PROCESSING
          50142603     MILLERS
          61060401     GRADERS,FOOD &/OR SKINS
          61083856     MIXERS,FOOD & TOBACCO
          61086019     NOVELTY WORKERS
          61086024     BUTTERMAKERS
          61086026     DAIRY PROCESSING EQMT OPER
          61086029     CHEESEMAKERS
          61086207     WASHERS &/OR SEPARATORS,FO
          61086213     BLANCHING MACHINE OPERATOR
          61086230     SUGAR BOILERS
          61086236     FEED PELLET MILL OPERATORS
          61086291     STILL OPERATORS
          80001016     WEIGHERS, PRODUCTION
          80001020     CONVEYOR OPERATORS OR TEND
          80002824     CANNERY WORKERS

**** CLUSTER: 0280 AGRICULTURAL SERVICES
          10240801     PURCHASING AGENTS &/OR BUY
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LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

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**** CLUSTER: 0280 AGRICULTURAL SERVICES (CONTINUED)
          10240804     BUYERS,RETAIL &/OR WHOLSL
          80000200     ANIMAL CARETAKERS

**** CLUSTER: 0300 HORTICULTURE & LANDSCAPE
          80001401     GARDENERS & GROUNDSKEEPERS
          80001402     TREE TRIMMERS
          90000474     HORTICULTURE SPECIALTY FARME
          90000476     MANAGERS,HORT SPECIALTY FARM
          90000484     NURSERY WORKERS

**** CLUSTER: 0330 CONSERVATION
          10241600     FORESTERS & CONSERV SCIENTIS
          70100606     FISH & GAME WARDENS
          80002831     FOREST CONSERVATION WORKER

**** CLUSTER: 0340 FORESTRY
          10081808     TIMBER CRUISERS
          50021000     LOGGING TRACTOR OPERATORS
          50140802     LOADER ENGINEERS
          50140803     YARDER ENGINEERS
          50142001     LOG INSPECTORS,GRADERS,SCA
          50142002     LUMBER GRADERS
          50142003     VENEER GRADERS
          61081464     PLANER OPERATORS
          61085005     EDGERS,AUTOMATIC &/OR PONY
          61085006     GANG SAWYERS
          61085008     HEAD SAWYERS
          61085011     RESAWYERS
          61086806     HOT PLATE PLYWOOD PRESS OP
          61086808     POWER BARKER OPERATORS
          61088408     CHIPPERS
          62001003     LOG HANDLING EQUIPMENT OPERA
          80001805     FALLERS &/OR BUCKERS

**** CLUSTER: 0350 GENERAL ADMINISTRATION
          10222000     PUBLIC RELATIONS SPECIALISTS
          10242802     PERSONNEL,LABOR REL SPECIA
          10243817     ASSESSORS
          10243825     CONTRACT ADMINISTRATORS
          10243899     ALL OTHER PROFESSIONAL WOR
          20040800     PUBLIC ADM INSPECTORS,EX CON
          20041000     CHIEF EXECUTIVES,LEGIS
          20041200     POSTMASTERS &/OR MAIL SUPERI
          20041601     PRINCIPALS
          20041602     ASST. PRINCIPALS
          20041603     SUPERINTENDENTS
          20061699     ALL OTHER MANAGERS
          40066840     TOWN CLERKS
**** CLUSTER: 0360 ADVANCED ACCOUNTING
          10240202     BUDGET ANALYSTS
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         LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 0360 ADVANCED ACCOUNTING (CONTINUED)
          10240203     TAX EXAMINERS,COLLECTRS,RE
          10240204     TAX PREPARERS

**** CLUSTER: 0380 FINANCIAL SERVICES
          10243809     CREDIT ANALYSTS,CHIEF
          10243810     CREDIT ANALYSTS
          10243819     BROKER´S FL REPS,SEC TRADR

**** CLUSTER: 0390 BANKING SERVICES
          30001601     BROKER & MARKET OPERATORS,CO
          30001604     SALES AGENTS,SALES REPS,FI
          30001605     SALES AGENTS,SALES REPS,SE
          40040203     TRANSIT CLERKS
          40060201     NEW ACCOUNTS TELLERS
          40060203     TELLERS
          40061400     COLLECTORS
          40062201     CREDIT AUTHORIZERS
          40062202     CREDIT REFERENCE CLERKS
          40062211     CREDIT REPORTERS
          40065205     BROKERAGE CLERKS
          40065207     TRADE RECORDERS
          40065208     MARGIN CLERKS
          40066801     LOAN CLOSERS
          40066802     DIVIDEND CLERKS
          40066814     SECURITIES CASHERS,EXCHNAGE
          40066816     PURCHASE & SALES CLERKS,SECU
          40066820     SAFE DEPOSIT CLERKS
          40066822     SECURITY DESCRIPTION CLERKS
          40066827     TRANSFER CLERKS
          40066841     CREDIT CLERKS,BANK&/ORINSU
          40066842     MORTGAGE CLOSING CLERKS
          40066845     INSURANCE CLERKS

**** CLUSTER: 0400 OFFICE SUPERVISION & MGT.
          40061200     CLERICAL SUPERVISORS

**** CLUSTER: 0410 EDUCATIONAL ASSISTING
          40065600     TEACHERS´AIDES/EDUC ASSISTAN

**** CLUSTER: 0420 PERSONNELL ASSISTING
          10242803     EMPLOYMENT INTERVIEWERS
          10243818     CLAIMS TAKERS,UNEMP BENEFI
          40062602     PERSONNEL CLERKS
          40062603     ADMISSIONS EVALUATORS

**** CLUSTER: 0430 SECRETARIAL - STENOGRAPHIC
          40020200     SECRETARIES
          40020400     STENOGRAPHERS

**** CLUSTER: 0440 LEGAL SCCRETARIAL
          40020200     SECRETARIES
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LISTING OF OES CODES AND TITLES BY CLUSTER (CON'T)

**** CLUSTER: 0450 MEDICAL SECRETARIAL

40020200	SECRETARIES
40066846	INSURANCE CLERKS,MEDICAL

**** CLUSTER: 0460 TYPING

40020600	TYPISTS
40064411	PROOFREADERS, CLERICAL

**** CLUSTER: 0470 GENERAL OFFICE CLERICAL

40040800	DUPLICATING MACHINE OPERATOR
40041400	ALL OTHER OFFICE MACHINE OPS
40041402	ADDRESSING MACHINE OPERATORS
40041404	INSERTING & LABELING MACH OP
40061604	ORDER CLERKS
40061605	CIRCULATION CLERKS
40061607	TELEPHONE AD TAKERS,NEWSPA
40062208	ADJUSTMENT CLERKS
40062210	CLAIMS CLERKS
40062601	FILE CLERKS
40063402	MAIL CLERKS
40064200	POSTAL SERVICE CLERKS
40064801	INFORMATION CLERKS
40064802	RECEPTIONISTS
40064803	SWITCHBD OPS & RECEPTIONISTS
40065212	WORKSHEET CLERKS
40065217	INSURANCE CHECKERS
40066805	CANCELLATION CLERKS
40066807	CORRESPONDENCE CLERKS
40066811	GENERAL CLERKS,OFFICE
40066815	POLICY CHANGE CLERKS
40066818	REAL ESTATE CLERKS
40066824	SERVICE CLERKS
40066848	LICENSE CLERKS
40066898	ALL OTHER OFFICE CLERICAL
61089097	MAILERS

**** CLUSTER: 0480 SHIPPING, RECEIVING & STOCK

40062400	PRODUCTION CLERKS
40065001	SHIPPING & RECEIVING CLERK
40065002	SHIPPING PACKERS
40065003	MANIFEST CLERKS
40065402	PROCUREMENT CLERKS
40065404	STOCK CLERKS,STOCKRM,WAREH
40066404	TRANSPORTATION AGENTS
40066600	WEIGHERS,RECORD KEEPING
40066838	RATE CLERKS,FREIGHT
80002001	ORDER FILLERS
80002003	STOCK CLERKS,SALES FLOOR

**** CLUSTER: 0490 MISCELLANEOUS CLERICAL

40062000	SURVEY WORKERS
40062222	BOX ESTIMATORS
40063601	MESSENGERS,BANK

LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 0490 MISCELLANEOUS CLERICAL (CONTINUED)

40063602	MESSENGERS
40063800	METER READERS
40065216	COURT CLERKS
40066804	CALL-OUT OPERATORS
40066829	MARKING CLERKS TRADE
40066847	SCRIPT CLERKS
40066899	ALL OTHER PLANT CLERICAL W

**** CLUSTER: 0500 HOTEL - MOTEL MANAGEMENT

20061699	ALL OTHER MANAGERS
40061603	DESK CLERKS
70200001	SUPERVISORS,NONWORKING,SER

**** CLUSTER: 0510 RECREATION & TOURISM

10243201	GROUP RECREATION WORKERS
10243206	CAMP DIRECTORS
10243821	TRAVEL AGTS,TR ACCOM APPRA
20061699	ALL OTHER MANAGERS
40061608	DESK CLERKS,BOWLING FLOOR
40064804	TRAVEL COUNSELORS,AUTO CLU
40066401	STATION AGENTS
40066402	TRAFFIC AGENTS
40066403	RESERVATION AGENTS
40066405	TICKET AGENTS
40066828	TRAVEL CLERKS
40066833	FILM BOOKERS
50142800	MOTION PICTURE PROJECTIONIST
70080401	RECREATION FACILITY ATTEND
70080402	GAME OPS,RIDE OPS,CONCESS
70080608	GUIDES,TRAVEL
70080619	GUIDES,SIGHTSEEING OR ESTA
70082800	USHERS,LOBBY ATTNS,TICKET TA

**** CLUSTER: 0530 TRANSPORTATION MANAGEMENT

20061699	ALL OTHER MANAGERS

**** CLUSTER: 0540 REAL ESTATE SERVICES

10240805	RIGHT-OF-WAY AGENTS
10243816	APPRAISERS,REAL ESTATE
30001402	REAL ESTATE BROKERS
30001403	SALES AGENTS,SALES REPS,RE

**** CLUSTER: 0580 BUSINESS & PERSONAL SERVICES

10243807	APPRAISERS
20061699	ALL OTHER MANAGERS
30001804	CONTRIBUTION SOLICITORS
30001805	CRATING & MOVING ESTIMATOR
30001899	ALL OTHER SALES WORKERS
40061602	COUNTER CLERKS
40062216	CUSTOMER SERV REPS.PRINT & P

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          LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 0610 FOOD STORE MARKETING
          10240804     BUYERS,RETAIL &/OR WHOLSL
          20061612     MANAGERS,STORE
          30001802     SALES CLERKS
          40060800     CASHIERS
          40065404     STOCK CLERKS,STOCKRM,WAREH
          80002003     STOCK CLERKS,SALES FLOOR

**** CLUSTER: 0630 INDUSTRIAL MARKETING
          10240801     PURCHASING AGENTS &/OR BUY
          30001802     SALES CLERKS
          30001808     SALES REPS.,TECHNICAL
          30001899     ALL OTHER SALES WORKERS

**** CLUSTER: 0650 WHOLESALE & RETAIL MARKETING
          10240804     BUYERS,RETAIL &/OR WHOLSL
          20020800     MANAGERS,MERCHANDISE
          20061612     MANAGERS,STORE
          20061615     WHOLESALERS
          20061699     ALL OTHER MANAGERS
          30000601     DEMONSTRATERS
          30001802     SALES CLERKS
          30001803     VENDORS
          30001806     SALES CLERK SUPERVISORS
          30001807     SALES REPS.,NONTECHNICAL
          30001899     ALL OTHER SALES WORKERS
          40060800     CASHIERS
          40066808     SERVICE REPRESENTATIVES
          50141000     MERCHAN DISPLAYERS & WIND TR

**** CLUSTER: 0670 BUILDING MATERIALS MARKETING
          30001802     SALES CLERKS

**** CLUSTER: 0680 FLORISTRY
          10221001     DESIGNERS

**** CLUSTER: 0690 FASHION MERCHANDISING
          10240804     BUYERS,RETAIL &/OR WHOLSL
          30001802     SALES CLERKS

**** CLUSTER: 0700 COMMERCIAL PHOTOGRAPHY
          10221801     ALL OTHER PHOTOGRAPHERS
          10221805     PHOTOGRAPHERS
          61084400     OTHER PHOTO PROCESS WORKERS

**** CLUSTER: 0720 INSURANCE MARKETING
          10243803     HOSPITAL INS REPRESENTATIV
          10243804     SAFETY INSPECTORS
          10243814     UNDERWRITERS
          10243815     INVESTIGATORS,INSURANCE
          10243820     SPECIAL AGENTS,INSURANCE
          10243822     CLAIM EXAMINERS,PRPTY/CSLT
          10243823     BLDG INSPECTORS,FIRE INSUR
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LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

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**** CLUSTER: 0720 INSURANCE MARKETING
        30001004     PLACERS
        30001005     SALES AGENTS,SALES REPS,IN
        40062801     CLAIM EXAMINERS,INSURANCE
        40062803     CLAIM ADJUSTERS

**** CLUSTER: 0760 AUTOMOTIVE MARKETING
        20061613     MANAGERS,AUTO SERVICE DEPT
        20061614     MANAGERS,AUTO PARTS DEPT

**** CLUSTER: 0770 SERVICE STATION RETAILING
        61082603     MARINE SERVICE STAT ATTEND
        61082605     FUEL PUMP ATTENDANTS,LUBRI
        61082606     TIRE CHANGERS
        61088614     TIRE FABRICATORS,REPAIRERS

**** CLUSTER: 0780 VEHICLE RENTAL & LEASING
        40061601     CAR RENTAL CLERKS
        61082604     TRAILER RENTAL ATTENDANTS
        62002006     RENTAL CAR DELIVERY WORKER

**** CLUSTER: 0790 ADVERTISING SERVICES
        10180204     MEDIA ANALYSTS
        10240803     MEDIA BUYERS
        40061606     CLASSIFIED AD CLERKS,NEWSP
        40066809     MEDIA CLERKS/ESTIMATORS/BI

**** CLUSTER: 0800 DENTAL ASSISTING
        10120401     DENTAL ASSISTANTS

**** CLUSTER: 0810 DENTAL HYGIENE
        10120402     DENTAL HYGIENISTS

**** CLUSTER: 0820 DENTAL LABORATORY TECHNOLOGY
        50141200     DENTAL LAB TECHNICIANS

**** CLUSTER: 0840 ELECTROCARDIOGRAPH TECH
        10121006     EKG TECHNICIANS

**** CLUSTER: 0850 ELECTROENCEPHALOGRAPH TECH
        10121007     EEG TECHNICIANS

**** CLUSTER: 0860 EMERGENCY MEDICAL TECHNOLOGY
        10121008     EMERGENCY MEDICAL TECHNICI
        62002001     AMBULANCE DRIVERS/AMB ATTE

**** CLUSTER: 0880 RADIOGRAPHIC MEDICAL TECH
        10120801     X-RAY TECHNICIANS
        10120804     RADIOLOGIC TECHS & NUC MED

**** CLUSTER: 0890 RESPIRATORY THERAPY TECH
        10101809     INHALATION THERAPISTS
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         LISTING OF OES CODES AND TITLES BY CLUSTER (CON'T)

**** CLUSTER: 0900 SURGICAL TECHNOLOGY
          10121002     SURGICAL TECHNICIANS

**** CLUSTER: 0910 MEDICAL LABORATORY TECH
          10120201     MEDICAL LAB TECHNOLOGISTS
          10120202     BIOCHEMISTRY TECHNOLOGISTS
          10120203     MICROBIOLOGY TECHNOLOGISTS
          10120204     CYTOTECHNOLOGISTS
          10120205     HISTOLOGIC TECHNOLOGISTS
          10120206     MEDICAL LAB ASSISTANTS
          10120207     BLOOD BANK TECH SPECILAIST
          10121099     ALL OTHER MED & DENT TECHN

**** CLUSTER: 0960 HEALTH & HUMAN SERVICES
          70061011     PSYCHIATRIC AIDES
          70083000     SOCIAL SERVICE AIDES

**** CLUSTER: 0980 MEDICAL ASSISTING
          70061013     MEDICAL ASSISTANTS

**** CLUSTER: 1010 MEDICAL RECORDS
          10120600     MEDICAL RECORD LIBRARIANS

**** CLUSTER: 1020 PHARMACY ASSISTING
          10121009     PHARMACY HELPERS

**** CLUSTER: 1040 NURSING ASSISTING
          70061010     NURSES AIDES/ORDERLIES

**** CLUSTER: 1050 LICENSED PRACTICAL NURSING
          10121010     LICENSED PRACTICAL NURSES

**** CLUSTER: 1060 OPTOMETRIC ASSISTING
          10121004     ORTHOPISTS
          50143001     LENS GRINDERS
          50143002     OPTICIANS,DISP &/OR OPTIC

**** CLUSTER: 1080 REHABILITATION THERAPY
          10101802     MANUAL ARTS,MUSIC,REC THER
          10101808     CORRECTIVE THERAPISTS
          10101810     ALL OTHER THERAPISTS

**** CLUSTER: 1110 OCCUPATIONAL THERAPY
          10101801     OCCUPATIONAL THERAPISTS
          70060400     OCCUPATIONAL THERAPY AIDES

**** CLUSTER: 1130 ORTHOPEDIC ASSISTING
          10121005     PROSTHETISTS,ORTHOTISTS
          70061012     ORTHOPEDIC CAST SPECIALIST

**** CLUSTER: 1150 PHYSICAL THERAPY
          10101804     PHYSICAL THERAPISTS
          10121012     PHYSICAL THERAPY TECHNICIA
          LISTING OF OES CODES AND TITLES BY CLUSTER (CON'T)

**** CLUSTER: 1170 AUDIOLOGY & SPEECH PATHOLOGY
          10101803     SPEECH & HEARING CLINICIAN
          10101807     AUDIOMETRISTS

**** CLUSTER: 1180 NURSING
          10100800     NURSES,PROFESSIONAL

**** CLUSTER: 1190 HEALTH SCIENCES ADMIN
          20061699     ALL OTHER MANAGERS

**** CLUSTER: 1200 CHILD CARE MANAGEMENT
          20061699     ALL OTHER MANAGERS

**** CLUSTER: 1210 CHILD CARE ASSISTING
          10243201     GROUP RECREATION WORKERS
          70081601     CHILD CARE ATTENDANTS
          70081602     CHILD CARE WORKERS

**** CLUSTER: 1220 CLOTHIHG & APPAREL
          10221003     FURRIERS
          50144405     SAMPLE MAKERS
          61041028     FOLDERS,HAND
          61060803     BUNDLERS
          61081431     PATTERN CUTTERS
          61085205     SEWING MACH OPS,REG EQMT,N
          61085212     GARMENT REPAIRERS
          61085215     SEWING MACH OPS,SPEC EQMT,
          61085219     SEWING MACH OPS,SPEC EQMT,
          61085220     SEWING MACH OPS,REG EQMT,G
          61085431     STITCHERS,STANDARD MACHINE
          61086604     CALENDER OPERATORS,CLOTH P
          61086614     FUSING MACHINE OPERATORS
          61086618     FOLDING MACHINE OPERATORS
          61088410     SKIVERS
          61089017     DRAPERS
          61089071     THREAD TRIMMERS
          61089092     MARKERS

**** CLUSTER: 1230 TAILORING & ALTERATION
          50144401     ALTERATION TAILORS
          50144402     CUSTOM TAILORS
          50144403     ALL AROUND TAILORS
          61081600     SEWERS,CUSTOM
          61085204     MENDERS
          61085213     HAND SEWERS

**** CLUSTER: 1240 TEXTILE PRODUCTION
          40066834     SHADE TICKET MARKERS
          61040202     CARD TENDRS,COMBER TENDRS,
          61040403     KNITTING MACHINE OPERATORS
          61040601     BEAM WARPER TENDERS &/OR B
          61040607     DOFFERS
          61040608     DRESSER TENDERS
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LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 1240 TEXTILE PRODUCTION (CONTINUED)

61040610	QUILLING MACHINE OPERATORS
61040612	SPINNERS,FRAME
61040615	TWISTER TENDERS
61040616	WARP TYING MACHINE TENDERS
61040618	YARN WINDERS
61040619	SPOOLER OPERATORS,AUTOMATI
61040621	ROPE LAYING MACHINE OPERAT
61040622	BEAMERS,HAND OR MACHINE
61040804	WEAVERS
61041002	BATTERY LOADERS
61041006	BURLERS
61041012	CLOTH SHRINKING MACH OPERA
61041015	HARNESS BUILDERS,LOOM CHNG
61041018	NAPPER TENDERS
61041025	TENTER FRAME OPERATORS
61041027	TURNERS
61060405	SORTERS,LEATHER
61060408	CLOTH GRADERS
61081205	HAND BLOCKERS,CAPS & HATS
61081207	PLEATING MACHINE OPERATORS
61081401	BIAS MACHINE OPERATORS
61081417	CUTTERS,PORTABLE MACHINE
61082204	DYE RANGE OPS/SP DYE BECK
61082205	DYE REEL OPS,JIGGRS,PAD MA
61083852	TINTERS
61085206	BAG SEWERS
61086607	BLENDING MACHINE OPERATORS
61086612	SPREADERS
61086617	EYELET MACHINE OPERATORS
61088443	SOABAR OPERATORS
61089054	SHUTTLERS,EMBROIDERY

**** CLUSTER: 1250 BAKING

50140201	FOOD SHAPERS,HAND
50140202	BAKERS
50140205	CAKE DECORATORS
61086201	DEPOSITORS,FOOD
61086258	DOUGHNUT MAKRS/DOUGHNUT MA
61086259	DIVIDING MACH OPERATORS,ET
61086292	OVEN OPERATORS
61089003	BAKER HELPERS
61089012	DECORATORS,BAKERY PRODUCTS
70040200	BAKERS,BREAD &/OR PASTRY

**** CLUSTER: 1260 FOOD PRODUCTION & SERVICE

20061400	MANAGERS,REST´RANT,COFFEE SH
61086035	COOKS &/OR COOKERS
61086229	SPINNERS,CONFECTION
61086245	CANDY MAKERS
70040200	BAKERS,BREAD &/OR PASTRY
70040600	DINING RM ATTNS,BAR HELPERS,
70040802	COOKS,SHORT ORDER/SPEC FAS

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          LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 1260 FOOD PRODUCTION & SERVICE (CONTINUED)
          70040803    COOKS,RESTAURANT
          70040804    COOKS,INSTITUTIONAL
          70041201    COUNTER ATTNS,LUNCHRM,COF SH
          70041601    HOSTS/HOSTESSES,REST,LNGE,
          70041602    WAITERS OR WAITRESSES
          70041802    KITCHEN HELPERS
          70041804    FD PREP & SERV WKRS,FAST FD
          70041805    PANTRY,SANDWICH,&/OR COFF
          70041899    ALL OTHER FOOD SERVICE WOR
          70200001    SUPERVISORS,NONWORKING,SER

**** CLUSTER: 1270 DIETETIC ASSISTING
          10121011    DIETETIC TECHNICIANS

**** CLUSTER: 1280 BARTENDING
          70040400    BARTENDERS

**** CLUSTER: 1290 HOME FURNISHINGS
          50083201    DRAPERY HANGERS
          50144601    FURNITURE UPHOLSTERERS
          50144602    CUSHION MAKERS
          61089221    DRAPERY & UPHOLSTERY MEASU

**** CLUSTER: 1300 INTERIOR DESIGN
          10221001    DESIGNERS
          10240804    BUYERS,RETAIL &/OR WHOLSL

**** CLUSTER: 1320 MISCELLANEOUS PUBLIC SERVICE
          40061803    DISPATCHERS,POLICE,FIRE,AM
          40061804    DISPATCHERS,VEHICLE,SERV O
          40063200    POSTAL MAIL CARRIERS
          40065214    METER READERS,TAXI
          40066000    TELEGRAPH OPERATORS
          40066201    SWITCHBOARD OPERATORS
          40066202    CENTRAL OFFICE OPERATORS
          40066203    DIRECTORY ASSISTANCE OPERA
          40066204    PRIVATE BRANCH SERVICE ADV
          40066205    SERVICE OBSERVERS
          40066831    PROTECTIVE SIGNAL OPERATOR
          50144023    DISPATCHERS,RELAY
          70100202    CROSSING OR BRIDGE TENDERS
          70100203    SCHOOL CROSSING GUARDS

**** CLUSTER: 1340 COMMUNICATIONS
          10141000    RADIO OPERATORS
          10222201    ANNOUNCERS
          10222202    BROADCAST NEWS ANALYSTS

**** CLUSTER: 1350 EDUCATIONAL MEDIA
          10242402    AUDIO VISUAL SPECIALISTS
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LISTING OF OES CODES AND TITLES BY CLUSTER (CON'T)

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**** CLUSTER: 1360 RADIO & TV TECHNOLOGY
        10080801     SOUND RECORDING & REPRO TE
        10080802     VIDEO RECORDING ENGINEERS
        10080808     BROADCAST TECHNICIANS
        10081815     LIGHT TECHNICIANS
        10221202     FILM EDITORS
        10221802     TELEVISION CAMERA OPERATOR
        10243802     TECHNICAL DIRECTORS
        40066826     TRAFFIC CLERKS

**** CLUSTER: 1370 MORTUARY SERVICES
        10140600     EMBALMERS
        70080602     MORTUARY BEAUTICIANS
        70080605     CREMATORS
        70080607     FUNERAL ATTENDANTS

**** CLUSTER: 1400 CIVIL TECHNOLOGY
        10081600     SURVEYORS
        10081816     CIVIL ENGINEERING TECHNICIAN
        61081000     SURVEYOR HELPERS

**** CLUSTER: 1410 ELECTRICAL & ELECTRONIC TECH
        10080803     ELECTRICAL & ELECTRONIC TE
        10081898     ALL OTHR ENGINEERING TECHN
        50083227     ELECTRONIC MECHANICS
        50142202     INSPECTORS
        61080415     WIRERS,ELECTRONIC
        61080416     COIL FINISHERS
        61080439     ELEC & ELECT ASSEMBLERS
        61085810     COIL WINDERS
        61088288     IMPREGNATORS,ELECTRONIC
        61088428     ENCAPSULATORS

**** CLUSTER: 1420 COMPUTER & BUS ELECTRONICS
        50081400     DATA PROCESSING MACH MECHANI
        50082400     OFF MACH SERVICERS/CASH REG

**** CLUSTER: 1430 BIOMEDICAL EQUIPMENT TECH
        50083224     ELECTROMEDICAL EQUIPMT REP

**** CLUSTER: 1440 ENVIRONMENTAL CONTROL TECH
        50081810     TREATMENT PLANT MECHANICS
        50144013     SEWAGE PLANT OPERATORS
        50144017     WATERSHED TENDERS
        50144021     WASTE TREATMENT PLANT OPS,
        50144025     WATER TREATMENT PLANT OPER

**** CLUSTER: 1450 CHEMICAL MANUFACTURING TECH
        61083855     MIXERS & BLENDERS,CHEMICALS
        61085612     FURNACE &/OR BURNER TENDER
        61087243     BATH MAKERS
        61087246     KETTLE WORKERS,SOAP
        61087254     EVAPORATOR OPERATORS,CHEMI
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LISTING OF OES CODES AND TITLES BY CLUSTER (CON'T)

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**** CLUSTER: 1450 CHEMICAL MANUFACTURING TECH (CONTINUED)
        61087257     KETTLE OPERATORS,ADHESIVE
        61087284     COMPRESSORS,TABLET
        61087285     COATERS,PILL
        61087287     STILL OPERATORS,BATCH OR C
        61087288     CHEMICAL OPERATOR HELPERS
        61087290     CHEMICAL OPERATORS A
        61087291     CHEMICAL OPERATORS B
        61087292     MOLDERS,MACHINE(DRUGS)
        61087294     DRIER OPERATORS,CHEM,PLAST
        61087295     CHIEF OPERATORS
        61088628     GRANULATOR MACHINE OPERATO

**** CLUSTER: 1460 ELECTROMECHANICAL TECHNOLOGY
        50083206     ELECTRICAL INSTRUMENT REPA
        50083221     INSTRUMENT REPAIRERS
        50144824     FIELD MECHANICAL METER TES
        61080437     INSTRUMENT MAKERS & ASSEMBLE
        61080438     ELEC MECH EQUIPMT ASSEMBLERS

**** CLUSTER: 1470 INDUSTRIAL TECHNOLOGY
        10081000     INDUSTRIAL ENGINRING TECHNIC
        10243808     COST ESTIMATORS

**** CLUSTER: 1510 QUALITY CONTROL TECHNOLOGY
        10081806     RADIOGRAPHERS
        10081807     SPECTROSCOPISTS
        50142202     INSPECTORS
        50142205     TESTERS

**** CLUSTER: 1550 MECHANICAL DESIGN TECHNOLOGY
        10081400     MECHAN ENGINEERING TECHNICIA

**** CLUSTER: 1580 LEGAL ASSISTING
        10242203     PARALEGAL PERSONNEL
        10243811     TITLE EXAMINERS &/OR ABSTR
        40066825     TITLE SEARCHERS

**** CLUSTER: 1590 LIBRARY ASSISTING
        10141405     TECHNICAL ASSISTANTS,LIBRA
        40063000     LIBRARY ASSISTANTS

**** CLUSTER: 1600 MISCELLANEOUS TECHNOLOGY
        10080201     BIO & AGRICUL SCI TE
        10081200     MATHEMATICAL TECHNICIANS
        10081812     PHYSICAL SCIENCE TECHNICIANS
        10081813     TRAFFIC TECHNICIANS
        10081898     ALL OTHR ENGINEERING TECHN
        10081899     ALL OTHER SCIENCE TECHNICI
        10141404     ALL OTHER TECHNICIANS

**** CLUSTER: 1620 AIRPLANE PILOTING
        10140200     AIRPLANE PILOTS
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LISTING OF OES CODES AND TITLES BY CLUSTER (CON'T)

**** CLUSTER: 1630 AIR TRAFFIC CONTROL

10140400	AIR TRAFFIC CONTROLLERS
40061801	DISPATCHERS,AIRPLANE

**** CLUSTER: 1640 GENERAL SUPERVISION

50040003	SUPERVISORS,NONWORKING
70200001	SUPERVISORS,NONWORKING,SER

**** CLUSTER: 1650 TRADE & INDUSTRIAL SUPER

50040003	SUPERVISORS,NONWORKING

**** CLUSTER: 1670 FIREFIGHTING

70100401	FIRE FIGHTERS
70100402	FIRE INSPECTORS
70100403	FIRE OFFICERS

**** CLUSTER: 1680 LAW ENFORCEMENT SERVICES

70100601	GUARDS & DOORKEEPERS
70100607	CORRECTION OFFICERS &/OR J
70100800	U.S. MARSHALLS
70101001	DETECTIVES, PRIVATE
70101002	STORE DETECTIVES
70101003	RAILROAD POLICE
70101004	POLICE OFFICERS
70101005	POLICE DETECTIVES
70101006	POLICE PATROLMEN/WOMEN
70101007	PARKING ENFORCEMENT OFFICE
70101201	SHERIFFS
70101202	BAILIFFS

**** CLUSTER: 1690 DRYCLEANING

61081201	PRESSERS,HAND
61081202	PRESSERS,MACHINE
61081203	PRESSERS,MACHINE,LAUNDRY
61082801	MARKERS,CLASSIFIERS,ASSEMB
61082802	SPOTTERS,DRYCLEANING
61082803	SPOTTERS,WASHABLE MATERIAL
61082804	WASHERS,MACH &/OR STARCHER
61082805	TUMBLER OPERATORS
61082806	DRYCLEANING MACHINE OPERAT
61082807	DRYCLEANERS,HAND
61082809	LAUNDRY OPERATORS,SM ESTAB
61082812	RUG CLEANERS,HAND
61082813	RUG CLEANERS,MACHINE
61082818	FOLDERS,LAUNDRY
61082820	WASHERS,SYNTHETIC FIBERS
61089062	SPOT CLEANERS

**** CLUSTER: 1700 BARBERING

70081000	BARBERS

LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

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**** CLUSTER: 1710 COSMETOLOGY
          70082001     COSMETOLOGISTS/WM´S HAIRST
          70082003     MANICURISTS
          70082006     SHAMPOOERS

**** CLUSTER: 1720 PERSONAL SERVICES
          70080609     MASSEURS OR MASSEUSES
          70080611     INSTRUCTORS,REDUCING

**** CLUSTER: 1730 BRICK, BLOCK & STONE MASONRY
          50020601     BRICKLAYERS
          50020602     STONE MASONS
          61082407     PLANERS,STONE
          61082413     STONE POLISHERS

**** CLUSTER: 1750 CARPENTRY
          50020201     CARPENTERS

**** CLUSTER: 1760 ELECTRICIAN
          50021401     ELECTRICIANS
          50021402     STREETLIGHT REPAIRERS,SERV
          50082002     ELECTRIC METER INSTALLERS,
          50082802     SIGNAL MAINTAINERS
          50083220     PROTECTIVE SIGNAL INST/REP

**** CLUSTER: 1770 LINEWORKER
          50081808     POWER TRANSFORMER REPAIRER
          50120201     CABLE SPLICERS
          50120202     LINE INSTALLERS,REPAIRERS
          50120203     TROUBLE SHOOTERS,POWER LIN
          80000608     GROUND WORKERS, UTILITIES

**** CLUSTER: 1780 BUILDING MAINTENANCE & CLEAN
          50144014     STATIONARY ENGINEERS
          50144821     MAINTENANCE REPAIRERS,GEN
          50144825     MOBILE HOME REPAIRERS
          61080401     MOBILE HOME SET-UP OPERATO
          61089204     EXTERMINATORS
          61089210     TERMITE TREATERS
          61089211     TERMITE TREATER HELPERS
          70020600     JANITORS,PORTERS,& CLEANERS
          70020606     ALL OTHER JANITORS,PORTERS,C
          70080616     HOUSEKEEPERS,HOTEL & MOTEL

**** CLUSTER: 1790 CONCRETE PLACING & FINISHING
          50021201     CEMENT MASONS
          50021202     CONCRETE WALL GRINDER OPER
          50021203     CONCRETE RUBBERS
          50021205     CONCRETE STONE FINISHERS
          61088038     BLOCKMAKING MACHINE OPERAT
          61088040     CONCRETE STONE FABRICATORS
          80000603     FORM SETTERS,METAL ROAD FO
          80000610     REINFORCING-IRON WORKERS
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LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

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**** CLUSTER: 1820 FLOOR COVERING & INSTALLATIO
        50024002     CEILING TILE INSTALLRS,FLR
        50140600     CARPET CUTTERS,CARPET LAYERS

**** CLUSTER: 1850 PAINTING & DECORATING
        50022200     PAINTERS,MAINTENANCE
        50022600     PAPERHANGERS

**** CLUSTER: 1870 ROOFING
        50023600     ROOFERS

**** CLUSTER: 1880 PIPEFITTING & STEAMFITTING
        50023203     PLUMBERS &/OR PIPEFITTERS
        50082004     GAS METER INSTALLERS
        50082009     WATER METER INSTALLERS
        80000609     PIPELAYERS

**** CLUSTER: 1890 GENERAL CONSTRUCTION TRADES
        20040400     CONSTRUCTION INSPECTORS
        50021206     TERRAZZO WORKERS
        50022000     FLOOR SANDING MACHINE OPERAT
        50022801     PLASTERERS
        50023800     STRUCTURAL STEEL WORKERS
        50023804     FITTERS,STRUCTURAL METAL
        50024001     TILE SETTERS
        50083230     SIGN ERECTORS
        50141802     GLAZIERS
        61080200     ASBESTOS & INSULATION WORKER
        61082001     DRY WALL APPLICATORS
        61082002     LATHERS
        61082003     TAPERS
        61088011     GLAZIERS,STAINED GLASS/JOI
        80000607     FENCE ERECTORS
        80000611     TRENCH SEWER SHAPERS
        80002823     ALL OTHER HELPERS,SKILLED

**** CLUSTER: 1900 COMMUNICATIONS ELECTRONICS
        50082600     RADIO & TV SERVICERS & REPAI
        50100803     ETCHERS &/OR ENGRAVERS
        50121001     INSTALLERS,REPAIRERS,SEC MAI
        50121003     STATION INSTALLERS
        50121004     TELEGRAPH EQUIPMT MAINTAIN
        50121007     CABLE REPAIRERS
        50121008     CABLE INSTALLERS
        50121009     FRAME WIRERS
        50121010     CENTRAL OFFICE REPAIRERS
        50121011     TROUBLE LOCATORS,TEST DESK
        50121012     TELEGRAPH PLANT MAINTAINER
        50121013     SHOP REPAIRERS,INSTRUMENT
        50121014     TELETYPE INSTALLERS
        50142205     TESTERS
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LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 1910 SMALL APPLIANCE REPAIR

50082005	GAS & ELEC APPLIANCE REPAI
50082007	HOUSEHOLD APPLIANCE INSTAL
50082012	HOUSEHOLD APPLIANCE REPAIR
50083205	ELECTRIC TOOL REPAIRERS
50083211	LAUNDRY MACHINE MECHANICS
50083218	SEWING MACHINE MECHANICS

**** CLUSTER: 1920 MOTOR REPAIR

50083204	ELECTRIC MOTOR REPAIRERS

**** CLUSTER: 1930 HEATING, A/C & REFRIGERATION

50080200	REFRIG MECHANICS,A/C MECHANI

**** CLUSTER: 1940 HEAVY EQUIPMENT MECHANICS

50081803	ENGINEERING EQUIPMT MECHAN

**** CLUSTER: 1950 INDUSTRIAL MACHINERY MAINTEN

50060400	BOILERMAKERS
50061600	MILLWRIGHTS
50081807	MAINTENANCE MECHANICS
61084000	OILERS

**** CLUSTER: 1960 POWER GENERATION

50081804	HYDROELECTRIC MACHINE MECH
50120800	SWITCHBOARD OPS,GENERATING P
50120802	SUBSTATION OPERATORS
50144002	CONTROL ROOM OPERATORS,STEAM
50144003	DIESEL PLANT OPERATORS
50144004	AUXILIARY EQUIPMENT OPERAT
50144014	STATIONARY ENGINEERS
50144015	TURBINE OPERATORS
61085602	STATIONARY BOILER FIRERS

**** CLUSTER: 1970 UTILITY SERVICES

40065201	GAS DISPATCHERS
50142209	LINE WALKERS
50144006	GAS PUMPING STATION OPERAT
50144019	PUMP STAT OPERATORS,WATERW
50144024	STATION ENGINEERS,MAIN LIN
50144803	CONDUIT MECHANICS
61083620	GAGERS
80001019	LOADERS,TANK CARS &/OR TRU

**** CLUSTER: 1980 GUNSMITHING

50083208	GUNSMITHS

**** CLUSTER: 2000 MUSICAL INSTRUMENT REPAIR

50144826	MUSICAL INSTRUMENTS REPAIR

**** CLUSTER: 2010 SHOE REPAIR

50143602	SHOE REPAIRERS

LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 2020 WATCH REPAIR

50142402	WATCHMAKERS

**** CLUSTER: 2030 MISCELLANEOUS REPAIR

50081805	MINE MACHINERY MECHANICS
50081811	KNITTING MACHINE FIXERS
50082200	LOOM FIXERS
50082803	CAR REPAIRERS
50083202	BICYCLE REPAIRERS
50083203	CAMERA REPAIRERS
50083207	GASOLINE ENGINE,MOWER REPA
50083212	LOCKSMITHS
50083215	COIN MACHINE SERVICERS,REP
50083225	PINSETTER MECHANICS,AUTOMA
50083299	ALL OTHER MECHANICS & REPA

**** CLUSTER: 2040 AIRCRAFT MECHANICS

50080400	AIRCRAFT MECHANICS

**** CLUSTER: 2050 AUTOMOTIVE REPAIR

50081001	AUTOMOTIVE MECHANICS
50081003	AUTO REPAIR SERVICE ESTIMA

**** CLUSTER: 2060 AUTOMOTIVE BODY REPAIR

50080800	AUTO BODY REPAIRERS
50081003	AUTO REPAIR SERVICE ESTIMA
50141801	GLASS INSTALLERS
61084201	PAINTERS,AUTOMOTIVE

**** CLUSTER: 2070 DIESEL MECHANICS

50083222	DIESEL MECHANICS

**** CLUSTER: 2080 ARCHITECTURAL DRAFTING

10080601	DRAFTERS
10243808	COST ESTIMATORS

**** CLUSTER: 2090 CIVIL/STRUCTURAL DRAFTING

10080601	DRAFTERS

**** CLUSTER: 2100 DRAFTING, GENERAL

10080601	DRAFTERS
10080602	ESTIMATORS & DRAFTERS,UTIL

**** CLUSTER: 2110 MECHANICAL DRAFTING

10080601	DRAFTERS

**** CLUSTER: 2120 MISCELLANEOUS CRAFTS

50020606	REFRACTORY MATERIALS REPAI
50144203	STONE CARVERS,HAND
50144805	GLASS BLOWERS
50144819	MACHINE SETTERS,PAPER GOOD
50144899	ALL OTHER SKILLED CRAFT WO

LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 2130 COMMERCIAL ART

10221601	COMMERCIAL ARTISTS
50020205	PICTURE FRAMERS
61084202	DECORATORS,HAND
61089014	SCREEN CUTTERS/MARKERS,NON

**** CLUSTER: 2140 GRAPHIC & PRINTING COMMUNICA

10243813	ESTIMATORS,PRINTING SERVIC
40064410	PROOFREADERS,COMPOSED COPY
50100202	SETTERS,BINDERY MACHINES
50100204	BOOKBINDERS,HAND
50100205	BOOKBINDERS,MACHINE
50100206	BINDERY WORKERS,ASSEMBLY
50100207	BINDERY WORKERS,STITCHING
50100208	ALL OTHER BINDERY WORKERS
50100400	COMPOSITORS &/OR TYPESETTERS
50100601	ELECTROTYPERS
50101001	STRIPPERS PRINTING
50101002	CAMERA OPERATORS,PRINTING
50101003	PHOTOENGRAVERS
50101201	PRESS OPERATORS,PLATE PRIN
50101202	OFFSET LITHOGRAPHIC PRESS
50101203	PLATEMAKERS
50101206	GRAVURE PRESS OPERATORS
50101207	LETTER PRESS OPERATORS
50101208	LETTERSET PRESS OPERATORS
50101209	STEEL DIE PRESS OPERATORS
50101210	PROOF PRESS OPERATORS
61041011	CLOTH PRINTERS
61041020	PATTERNMAKERS
61088401	SCREEN/STENCIL PRINTERS/SE
61088402	SCREEN MAKERS,PHOTOGRAPHIC
61088616	INK WORKERS
61088621	PHOTOLETTERING MACHINE OPE
61089015	DIE MOUNTERS
61089042	PRINTER-SLOTTER FEEDERS
61089095	PRESS ASSISTANTS & FEEDERS
61089096	COPY MARKERS

**** CLUSTER: 2150 UPHOLSTERING

50080600	AUTO SEAT COVER,TOP INSTALLE
50144603	SPRINGERS
50144604	UPHOLSTERY TRIMMERS
50144605	UPHOLSTERERS
50144606	UPHOLSTERY CUTTERS
50144607	CASKET COVERERS/CASKET LIN
50144608	MATTRESS MAKERS
61060406	SORTERS,UPHOLSTERY PARTS

**** CLUSTER: 2160 MEATCUTTING

61083201	BONERS,MEAT
61083202	BONERS,POULTRY
61083204	BUTCHERS,ALL-AROUND

**** CLUSTER: 2160 MEATCUTTING (CONTINUED)

61083207	FISH CLEANERS,HAND/BUTCHER
61086012	CASING FINISHERS &/OR STUF
61086033	MEAT GRINDERS
70041400	BUTCHERS &/OR MEAT CUTTERS

**** CLUSTER: 2170 SLAUGHTERING & BUTCHERING

61083205	CARCASS SPLITTERS
61086004	PUMPERS,MEAT
61086007	SKIN PEELING MACHINE OPERA
61089009	COOLER ROOM WORKERS,MEAT
61089040	POULTRY DRESSERS,EVISCERAT
61089058	SKINNERS,ANIMAL
61089060	SMOKERS

**** CLUSTER: 2180 MISC FOOD PROCESSING

61086001	PICKLERS,FOOD
61086003	PRESS OPERATORS,MEAT
61086011	DRY CURERS
61086021	FLAVOR ROOM WORKERS,FREEZE
61086204	RETORT OPERATORS
61086223	PRESSERS,EXPELLER OPERATOR
61086290	FERMENTATION OPERATORS
61089007	CHEESEMAKER HELPERS
61089013	DEHAIRING MACHINE OPERATOR
61089029	INGREDIENT SCALERS
61089050	SHACTORS
61089061	SPLITTING MACHINE FEEDERS
61089065	STICKERS
61089069	STUNNERS
61089085	ENROBING MACH OPS/MACHINE
80002828	RAW CHEESE WORKERS

**** CLUSTER: 2200 PRECISION METAL WORK

10141200	TOOL PROGRAMMERS,NUMERICAL C
50060600	HEAT TREATERS,ANNEALERS,ETC
50060802	FORGING PRESS OPERATORS
50060804	HEADER OPERATORS
50061003	MACHINE TOOL SETTERS,METAL
50061007	PUNCH PRESS SETTERS,METAL
50061202	LAYOUT MARKERS,METAL
50061206	MACHINISTS
50062403	FORGING/STRAIGHTENING ROLL
50142202	INSPECTORS
50142205	TESTERS
61020201	DRILL PRESS/BORING MACHINE
61020600	GRINDING/ABRADING MACH OPS,M
61021004	LATHE OPERATORS,GRINDING W
61021006	LATHE MACH OPERATORS,METAL
61021007	MILLING/PLANING MACHINE OP
61021011	GEAR CUT,GRIND,SHAPE MACH OP
61021402	MACHINE TOOL OPERATORS,COM
61021403	MACHINE TOOL OPERATORS,NUM

LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 2200 PRECISION METAL WORK (CONTINUED)

61021405	MACHINE TOOL OPERATORS,TOO
61021609	PUNCH PRESS OPERATORS,META
61082401	FILERS,GRINDERS,BUFFERS,CH
61085013	SAWYERS,METAL
61088267	DRAW-BENCH OPERATORS,TUBE
61088850	WIRE DRAWERS

**** CLUSTER: 2210 TOOL & DIE MAKING

50061002	DIE SETTERS
50063001	TOOL & DIE MAKERS
50063003	DIE SINKERS
61082403	DIE POLISHERS,WIRE &/OR TU

**** CLUSTER: 2220 METAL PATTERNMAKING

50061806	MOLDERS,PATTERN
50062203	PATTERNMAKERS,METAL

**** CLUSTER: 2230 SHEET METAL

50061008	SHEAR &/OR SLITTER SETTERS
50062600	SHEET METAL WORKERS
61021611	POWER BRAKE,BENDING MACH O
61081459	SHEAR &/OR SLITTER OPERATO
61088261	STRETCHER-LEVELER OPERATOR

**** CLUSTER: 2240 METAL FABRICATION

50023801	METAL FABRICATORS
50100803	ETCHERS &/OR ENGRAVERS
61021201	ELECTROPLATERS
61021202	DIP PLATERS,NONELECTROLYTI
61080413	SPRING MACHINE OPERATORS
61084606	RIVETERS,LIGHT
61085811	AUTOMAT SPRING COILING MAC
61088035	CAGE MAKERS,HAND OR MACHIN
61088229	COILERS,WINDERS,&/OR SPOOL
61088286	ROLL FORMING MACH OPERATOR
61088291	MULTI-SLIDE MACHINE OPERAT
61088292	BODYMAKER OPERATORS,TIN CA
61088293	WIRE WEAVERS

**** CLUSTER: 2250 PLASTICS

50061009	SETTERS,PLASTIC MOLDING MA
50062202	PATTERNMAKERS,PLASTICS
61080419	ASSEMBLERS
61087608	HEAT SEALERS
61087623	EXTRUDER OPS,RUBBER OR PLA
61087624	EXTRUDER OP HELPERS,RUB OR
61087631	BLOW MOLDING MACHINE OPERATO
61087633	CALENDER OPS,RUBBER OR PLA
61087635	ROTATION MOLDING MACH OPERAT
61087640	PILLING MACHINE OPERATORS
61087645	COMPR &/OR INJECT MOLD MA
61088415	LAMINATORS,PREFORMS

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     LISTING OF OES CODES AND TITLES BY CLUSTER (CON'T)

**** CLUSTER: 2250 PLASTICS (CONTINUED)
          61088416     PRESS OPERATORS,PLASTICS
          61088424     BAGGERS,PLASTICS
          61088817     FABRICATORS,PLASTICS
          61089044     PLASTICS REPAIRERS

**** CLUSTER: 2260 JEWELRY WORK
          50061801     METAL MOLD MAKERS
          50142401     JEWELERS &/OR SILVERSMITHS
          50142410     STONE SETTERS
          61088849     WAX PATTERN WORKERS

**** CLUSTER: 2270 WOODWORKING
          50062204     PATTERNMAKERS,WOOD
          50140400     CABINETMAKERS
          50141400     FURNITURE FINISHERS
          50144808     MACHINE SETTERS,WOODWORKIN
          50144828     CRATERS
          61021001     VENEER LATHE OPERATORS
          61021005     LATHE OPERATORS,WOOD
          61021009     SHAPER &/OR ROUTER OPERATO
          61021401     BORING MACHINE OPERATORS,W
          61021404     WOOD MACHINISTS
          61080419     ASSEMBLERS
          61081407     AUTOMATIC CLIPPERS,VENEER
          61081409     CORNER CUTTERS
          61081430     MORTISING MACHINE OPERATOR
          61081434     RIP & GROOVE MACHINE OPERA
          61081452     TENONER OPERATORS
          61082410     SANDERS,WOOD
          61082411     SAW FILERS
          61082415     VENEER SANDERS
          61084208     RUBBERS
          61085001     BAND SCROLL SAW OPERATORS
          61085003     CUT-OFF SAW OPERATORS,LUMB
          61085012     RIPSAW OPERATORS
          61085017     TRIM SAW OPERATORS
          61085018     VARIETY SAW OPERATORS
          61086812     DADO OPERATORS
          61086818     WOODWORKING MACHINE OPERAT
          61086819     LAMINATING MACH OPERATORS,
          61088841     SHAPERS,HAND
          61088852     LAYOUT MARKERS,WOOD
          62000802     FURNITURE ASSEMBLERS & INS

**** CLUSTER: 2280 WELDING
          61022002     WELDERS & FLAMECUTTERS

**** CLUSTER: 2290 CONSTRUCTION EQUIP OPERATION
          50021807     HEAVY EQUIPMENT OPERATORS
          50140801     CRANE,DERRICK,& HOIST OPER
          61081808     ROTARY DRILL OPERATORS
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        LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 2300 MATERIAL HANDLING
          40063401     FREIGHT HANDLERS
          61086241     GRAIN RECEIVERS
          61086264     LOADERS,MALT HOUSE
          62001001     INDUSTRIAL TRUCK OPERATORS
          70081800     ELEVATOR OPERATORS
          80001020     CONVEYOR OPERATORS OR TEND
          80001023     WORK DISTRIBUTORS

**** CLUSTER: 2310 MINING & HEAVY EQUIP OPER
          50020202     ROOF BOLTERS
          50021802     CONCRETE MIXER OPERATORS
          50021805     FINE-GRADERS
          50021809     BATCH PLANT OPERATORS
          50021810     BALLAST CLEAN MACH OPERATO
          50081801     ELEVATOR INSTALLERS/REPAIR
          61080601     BLASTERS,MINING & QUARRYIN
          61081803     DRILLERS,HAND
          61083610     COAL WASHERS
          61083618     DRIER OPERATORS,COAL OR OR
          61083622     LOADING MACHINE OPERATORS
          61083637     TIPPLE OPERATORS
          61083643     PANELBD OPERATORS,GRIND MI
          61083646     MILL &/OR GRINDER OPS,MINE
          61083804     ASPHALT BLENDERS
          61083805     ASPHALT MIXERING MACH TEND
          61083806     ASPHALT-PLANT OPERATORS
          61083818     COMPOUNDERS
          61085014     SAWYERS,STONE
          61087408     ASPHALT-PLANT DRIER OPERATOR
          62001201     DUMP OPERATORS
          62001202     DINKEY OPERATORS
          80000601     AIR HAMMER OPERATORS
          80000628     HIGHWAY MAINTENANCE WORKER
          80000629     ASPHALT RAKERS

**** CLUSTER: 2320 TRUCK & BUS DRIVING
          62000401     BUS DRIVERS
          62002201     TRUCK DRIVERS

**** CLUSTER: 2330 VEHICLE OPERATORS
          62000402     BUS DRIVERS, SCHOOL
          62000801     DELIVERY & ROUTE WORKERS
          62001400     PARKING LOT ATTENDANTS
          62002004     TAXI DRIVERS
          62002005     DRIVERS,ASSEMBLY LINE
          62002007     CHAUFFEURS
          80002825     TRUCK DRIVER HELPERS

**** CLUSTER: 2340 RAILROAD TRANSPORTATION
          20061200     CONDUCTORS,TRAIN
          40065405     YARD CLERKS
          50082801     ELECTRIC TRACK SWITCH MAIN
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LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 2340 RAILROAD TRANSPORTATION (CONTINUED)

50120402	YARD ENGINEERS
50120403	HOSTLERS
50120405	LOCOMOTIVE ENGINEERS
50120600	FIRERS,LOCOMOTIVE
62001600	BRAKERS,TRAIN
62001800	TOWER OPERATORS

**** CLUSTER: 2350 MARINE TRANSPORTATION

20060801	CAPTAINS,WATER VESSEL
20060802	PILOTS,SHIP
50021803	DREDGE OPERATORS
50081806	MARINE MECHANICS/REPAIRERS
50083226	MOTOR BOAT MECHANICS
61084803	ORDINARY SEAMEN

**** CLUSTER: 2400 MISCELLANEOUS OPERATIVES

50144005	GAS COMPRESSOR OPERATORS
61060802	PRODUCTION PACKAGERS
61060809	BALING MACHINE OPERATORS
61080410	POWER SCREWDRIVER OPERATOR
61080419	ASSEMBLERS
61080436	MACHINE ASSEMBLERS
61080440	ALL OTHER ASSEMBLERS
61081403	CUTTERS,MACHINE
61081410	CORRUGATOR-KNIFE OPERATORS
61081424	DIE CUTTERS,CLICKING MACH
61081443	SLITTER-SCORER-CUT-OFF OPE
61081445	SLITTING MACHINE OPERATORS
61081462	CUTTING MACHINE OPERATORS,
61081463	CUTTERS,HAND
61081804	DRILLERS,MACHINE
61082402	SANDBLASTERS/SHOTBLASTERS
61083854	MIXERS,STONE,CLAY,GLASS,ET
61084210	PAINTERS,PRODUCTION
61084602	NAILING MACHINE OPERATORS
61084604	STAPLING MACHINE OPERATORS
61085619	FURNACE,KILN,DRIER OPS
61086224	REFINERY OPERATORS
61086295	DRIER OPERATORS
61087032	PRINTER-SLOTTER OPERATORS
61087038	TAPING MACHINE OPERATORS
61087041	WAXING MACHINE OPERATORS
61087043	FLEXO-FOLDER-GLUER OPERATO
61087056	CUTTING & CREASING PRESS O
61087060	CORRUGATOR OPERATORS
61087618	PRESS TENDERS,RUBBER GOODS
61088429	BALANCING MACHINE OPERATORS
61088801	GLUERS & OR CEMENTERS,HAND
61088814	CONCRETE PIPE MAKERS
61088818	FINISHERS,HAND
61089032	LUGGAGE MAKERS

LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 2400 MISCELLANEOUS OPERATIVES (CONTINUED)

61089052	EXTRACTOR OPERATORS,EXT PL O
63000000	ALL OTHER SEMISKILLED WRKS
80002822	RIGGERS

**** CLUSTER: 2401 MISC. OPERATIVES (CONTINUED)

50144801	PIPELINERS
61060404	SORTERS,BURNED PRODUCTS
61080418	CORE LAYERS/SHEET TURNERS
61081442	SLITTER-CREASER-SLOTTER OP
61082607	TIRE REPAIRERS
61085439	TRIMMERS,MACHINE
61085804	PAPER REEL OPS,REWINDER OP
61086227	ROLLING MACHINE OPERATORS
61087027	LAYBOY TENDERS
61087035	SCORERS
61087045	ENVELOPE MACHINE OPERATORS
61087047	FOUR-CORNERS-STAYER MACH O
61087051	BAG MACHINE OPERATORS
61087054	BOX MAKERS,PAPERBOARD
61087070	SLOTTER OPERATORS
61087241	CASTING RM OPERATORS,CELLO
61087273	GLUEMAKERS
61087603	RUBBER MILL OPERATORS
61087611	SPLICERS
61087614	TIRE BUILDERS
61087621	BRAIDING MACH TENDERS
61087627	BEAD FLIPPERS
61087634	CALENDAR OPERATOR HELPERS
61087637	VACUUM PLASTIC FORMING MAC
61087639	FINISHERS,MACHINE
61088058	BRICK & TILE MAKING MACH O
61088070	CONCRETE VAULT MAKERS
61088289	COIL TAPERS,HAND OR MACHINE
61088404	EMBOSS,STAMP,MARK MACHINE OP
61088405	FILTER/FILTER PRESS OPERAT
61088406	BRAIDING MACHINE OPERATORS
61088407	GRINDER OPERATORS
61088436	LOADING MACHINE OPERATORS
61088444	PUMP OPERATORS
61089002	CURERS,RUBBER GOODS
61089078	CASTERS,PLASTICS
80001012	SAMPLERS & OR TEST PREPARERS
80001015	TIRE LAYERS & EXTRACTORS
80002403	MOLD CLEANERS,TIRE
80002821	SCRAP SORTERS

**** CLUSTER: 2403 MISC. OPERATIVES (CONTINUED)

61060209	SELECTORS,GLASSWARE
61081435	RUBBER GDS CUTTER-FINISHER
61082406	HAND EDGERS/BELT SEAMERS
61082408	POLISHERS,GLASS &/OR BLOCK
61083817	COATING MIXER TENDERS

LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 2403 MISC. OPERATIVES (CONTINUED)

61083835	ROOF CEMENT & PAINT MAKERS
61085015	SAWYERS,PLASTICS
61085808	WINDERS,PAPER MACHINE
61086283	COOLING MACHINE OPERATORS
61086803	TREATING ENGINEERS
61086805	VENEER REPAIRERS,MACHINE
61087005	PULP REFINER OPERATORS
61087007	RECOVERY OPERATORS,PAPERMA
61087014	FOURDRINIER MACHINE TENDER
61087021	DIGESTER OPERATORS
61087213	CALCINER OPERATORS
61087601	LEAD PRESS OPERATORS
61087602	LEAD STRIPPING MACHINE OPERA
61087606	REFINER OPERATORS,RUBBER
61087607	ROLLER BUILDERS,RUBBER
61087615	SPLICERS,RUBBER PRODUCTS
61087629	DIPPING MACHINE OPERATORS
61087807	HANDBAG FRAMERS
61087809	STAKERS,MACHINE
61087814	GLOVE TURNERS & FORMERS
61088004	SLIVER FORMING & WINDING O
61088021	REFACTORY GRINDER OPERATOR
61088810	CASTERS,PATTERY & PORCELAI
61088828	REFRACTORY MOLDERS,HAND
61089032	LUGGAGE MAKERS
61089082	FINISHERS,POTTERY & PORCEL
80002815	STRIPPERS

**** CLUSTER: 2410 MISCELLANEOUS SERVICE

61060804	BAGGERS
61089203	BILLPOSTERS
70080403	PIN CHASERS
70080404	RACKERS,POOLROOM
70080618	CHECKROOM & LOCKER RM ATTEND
70080801	BELLHOPS,BAG PORTERS,DR
70080802	BAGGAGE PORTERS
70080803	BAGGAGE HANDLERS
70100602	CHECKERS,FITTING ROOM
70200099	ALL OTHER SERVICE WORKERS
80002827	LOCKER PLANT ATTENDANTS
80002830	LINE SERVICE ATTENDANTS

**** CLUSTER: 2420 MISCELLANEOUS LABORERS

61088834	PLATER HELPERS
61088851	PIPE STRIPPERS
80001005	CHAIN OFFBEARERS,LUMBER
80001007	LOADERS,CAR & TRUCK
80001008	LUMBER STRAIGHTENERS
80001009	OFF-BEARERS
80001018	VENEER DRIER FEEDERS
80001200	REFUSE COLLECTORS
80002401	CLEANERS,VEHICLE

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          LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 2420 MISCELLANEOUS LABORERS (CONTINUED)
          80002404    EQUIPMENT CLEANERS, HAND
          80002832    SEPTIC TANK SERVICERS,ETC
          80002899    ALL OTHER LABORERS & UNSKL

**** CLUSTER: 5000 PERFORMING ARTS
          10220200    ACTORS OR ACTRESSES
          10220800    DANCERS
          10221404    MUSICIANS,INSTRUMENTAL
          10221405    SINGERS
          10221408    MUSIC DIRECTORS

**** CLUSTER: 5010 FINE ARTS
          10221001    DESIGNERS
          10221605    PAINTINGS RESTORERS

**** CLUSTER: 5020 PRINT JOURNALISM
          10081814    SPECIFICATION WRITERS,ENGINE
          10221201    WRITERS &/OR EDITORS
          10221203    REPORTERS & CORRESPONDENTS

**** CLUSTER: 5030 SPORTS
          10220401    ATHLETES
          10220404    UMPIRES
          70080407    LIFEGUARDS

**** CLUSTER: 5100 DENTISTS
          10100400    DENTISTS

**** CLUSTER: 5120 CHIROPRACTORS
          10100200    CHIROPRACTORS

**** CLUSTER: 5140 PHARMACISTS
          10101200    PHARMACISTS

**** CLUSTER: 5160 PODIATRISTS
          10101600    PODIATRISTS

**** CLUSTER: 5180 PHYSICIANS ASSISTING
          10121014    PHYSICIANS ASSISTANTS

**** CLUSTER: 5200 LAW SERVICES
          10242001    JUDGES
          10242002    MAGISTRATES
          10242201    LAW CLERKS
          10242202    LAWYERS

**** CLUSTER: 5300 LIBRARIANS
          10141401    MUSEUM TECHNICIANS,RESTORE
          10240601    ARCHIVISTS
          10240603    MUSEUM CURATORS
          10242401    LIBRARIANS
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LISTING OF OES CODES AND TITLES BY CLUSTER (CON'T)

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**** CLUSTER: 5400 MATHEMATICIANS
        10060200    ACTUARIES
        10060402    MATHEMATICIANS
        10060403    ALL OTHER MATH SCIENTISTS
        10060600    STATISTICIANS
        10180201    FINANCIAL ANALYSTS

**** CLUSTER: 5410 PHYSICAL SCIENTISTS
        10040400    METEOROLOGISTS
        10041000    GEOLOGISTS & GEOPHYSICISTS
        10041400    PHYSICISTS

**** CLUSTER: 5420 CHEMISTS
        10040800    CHEMISTS

**** CLUSTER: 5430 LIFE & PHYSICAL SCIENTISTS
        10041600    LIFE & PHYSICAL SCIENTISTS,N
        10041603    ALL OTHER PHYSICAL SCIENTIST

**** CLUSTER: 5500 PSYCHOLOGISTS
        10180600    PSYCHOLOGISTS

**** CLUSTER: 5600 SOCIAL WORK
        10243401    CASEWORKERS
        10243404    WELFARE INVESTIGATORS
        10243405    COMMUNITY ORGANIZATION WOR
        40061000    ELIGIBILITY WORKERS,WELFARE

**** CLUSTER: 5610 SOCIAL SCIENTISTS
        10180202    ECONOMISTS
        10180205    MARKET RESEARCH ANALYSTS
        10180800    SOCIOLOGISTS
        10181000    URBAN AND REGIONAL PLANNERS
        10181200    ALL OTHER SOCIAL SCIENTISTS

**** CLUSTER: 5620 CLERGY
        10241000    CLERGY
        10241200    DIRECTORS,REL ACT &/OR REL E

**** CLUSTER: 5700 EDUCATION
        10201000    TEACHERS,ADULT EDUCATION
        10202001    TEACHERS,VOCATIONAL ED OR
        10202002    TEACHERS,COLLEGE
        10202003    GRADUATE ASSISTANTS
        10202005    PROFESSORS
        10202006    ASSOC. PROFESSORS
        10202007    ASST. PROFESSORS
        10202008    LECTURERS
        10202009    ATHLETIC COACHES
        10203002    PRESCH. &/OR ELEM. SCH. TE
        10205000    TEACHERS,SECONDARY
        10206001    DANCE INSTRUCTORS
        10206002    INSTRUCTORS,AUTO DRIVING
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          LISTING OF OES CODES AND TITLES BY CLUSTER (CON´T)

**** CLUSTER: 5700 EDUCATION (CONTINUED)
          10206099     ALL OTHER TEACHERS
          10220403     SPORTS INSTRUCTORS
          10241801     HOME ECONOMISTS
          10243600     VOCATIONAL & EDUC COUNSELORS
          10243801     CURRICULUM SPECIALISTS
          50144815     INSTRUCTORS,APPAREL & TEXT

**** CLUSTER: 5800 ARCHITECTS
          10240400     ARCHITECTS

**** CLUSTER: 5810 ENGINEER, AERO-ASTRONAUTIC
          10020200     AERONAUTICAL ENGINEERS

**** CLUSTER: 5830 ENGINEER, ELECTRICAL
          10020800     ELECTRICAL ENGINEERS

**** CLUSTER: 5840 ENGINEER, MECHANICAL
          10021200     MECHANICAL ENGINEERS

**** CLUSTER: 5850 ENGINEER, INDUSTRIAL
          10021000     INDUSTRIAL ENGINEERS

**** CLUSTER: 5860 ENGINEER, CIVIL
          10020600     CIVIL ENGINEERS
          10022003     TRAFFIC ENGINEERS

**** CLUSTER: 5870 ENGINEER, OTHER
          10021400     METALLURGISTS & MET ENGINEER
          10021600     MINING ENGINEERS
          10022004     NUCLEAR ENGINEERS
          10022005     AGRICULTURAL ENGINEERS
          10022099     ALL OTHER ENGINEERS
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ALPHABETICAL LISTING OF OES TITLES WITH CODES

CLUS #	OES CODE	OES TITLE
2402	61088064	ABRASIVE GRINDERS
0370	10240201	ACCOUNTANTS & AUDITORS
0370	40060601	ACCOUNTING CLERKS
5000	10220200	ACTORS OR ACTRESSES
0370	40065204	ACTUARIAL CLERKS
5400	10060200	ACTUARIES
0470	40041402	ADDRESSING MACHINE OPERATORS
0470	40062208	ADJUSTMENT CLERKS
0420	40062603	ADMISSIONS EVALUATORS
5810	10020200	AERONAUTICAL ENGINEERS
5870	10022005	AGRICULTURAL ENGINEERS
5440	10040200	AGRICULTURAL SCIENTISTS
2310	80000601	AIR HAMMER OPERATORS
1630	10140400	AIR TRAFFIC CONTROLLERS
2040	50080400	AIRCRAFT MECHANICS
1620	10140200	AIRPLANE PILOTS
1230	50144403	ALL AROUND TAILORS
2400	61080440	ALL OTHER ASSEMBLERS
2140	50100208	ALL OTHER BINDERY WORKERS
5870	10022099	ALL OTHER ENGINEERS
1260	70041899	ALL OTHER FOOD SERVICE WOR
1890	80002823	ALL OTHER HELPERS,SKILLED
1780	70020606	ALL OTHER JANITORS,PORTERS,C
2420	80002899	ALL OTHER LABORERS & UNSKL
0350	20061699	ALL OTHER MANAGERS
0500	20061699	ALL OTHER MANAGERS
0510	20061699	ALL OTHER MANAGERS
0530	20061699	ALL OTHER MANAGERS
0580	20061699	ALL OTHER MANAGERS
0650	20061699	ALL OTHER MANAGERS
1190	20061699	ALL OTHER MANAGERS
1200	20061699	ALL OTHER MANAGERS
5400	10060403	ALL OTHER MATH SCIENTISTS
2030	50083299	ALL OTHER MECHANICS & REPA
0910	10121099	ALL OTHER MED & DENT TECHN
0470	40066898	ALL OTHER OFFICE CLERICAL
0470	40041400	ALL OTHER OFFICE MACHINE OPS
0700	10221801	ALL OTHER PHOTOGRAPHERS
5430	10041603	ALL OTHER PHYSICAL SCIENTIST
0490	40066899	ALL OTHER PLANT CLERICAL W
0350	10243899	ALL OTHER PROFESSIONAL WOR
0580	30001899	ALL OTHER SALES WORKERS
0630	30001899	ALL OTHER SALES WORKERS
0650	30001899	ALL OTHER SALES WORKERS
1600	10081899	ALL OTHER SCIENCE TECHNICI
2400	63000000	ALL OTHER SEMISKILLED WRKS
2410	70200099	ALL OTHER SERVICE WORKERS
2120	50144899	ALL OTHER SKILLED CRAFT WO
5610	10181200	ALL OTHER SOCIAL SCIENTISTS
5700	10206099	ALL OTHER TEACHERS
1600	10141404	ALL OTHER TECHNICIANS
1080	10101810	ALL OTHER THERAPISTS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
1410	10081898	ALL OTHR ENGINEERING TECHN
1600	10081898	ALL OTHR ENGINEERING TECHN
1230	50144401	ALTERATION TAILORS
0860	62002001	AMBULANCE DRIVERS/AMB ATTE
2402	61087283	AMPULE FILL,SEAL,WASH OPER
0280	80000200	ANIMAL CARETAKERS
1340	10222201	ANNOUNCERS
0580	10243807	APPRAISERS
0540	10243816	APPRAISERS,REAL ESTATE
5800	10240400	ARCHITECTS
5300	10240601	ARCHIVISTS
1890	61080200	ASBESTOS & INSULATION WORKER
2310	61083804	ASPHALT BLENDERS
2310	61083805	ASPHALT MIXERING MACH TEND
2310	80000629	ASPHALT RAKERS
2310	61087408	ASPHALT-PLANT DRIER OPERATOR
2310	61083806	ASPHALT-PLANT OPERATORS
2250	61080419	ASSEMBLERS
2270	61080419	ASSEMBLERS
2400	61080419	ASSEMBLERS
0350	10243817	ASSESSORS
5700	10202006	ASSOC. PROFESSORS
0350	20041602	ASST. PRINCIPALS
5700	10202007	ASST. PROFESSORS
5030	10220401	ATHLETES
5700	10202009	ATHLETIC COACHES
1350	10242402	AUDIO VISUAL SPECIALISTS
1170	10101807	AUDIOMETRISTS
2060	50080800	AUTO BODY REPAIRERS
2050	50081003	AUTO REPAIR SERVICE ESTIMA
2060	50081003	AUTO REPAIR SERVICE ESTIMA
2150	50080600	AUTO SEAT COVER,TOP INSTALLE
2240	61085811	AUTOMAT SPRING COILING MAC
2270	61081407	AUTOMATIC CLIPPERS,VENEER
2050	50081001	AUTOMOTIVE MECHANICS
1960	50144004	AUXILIARY EQUIPMENT OPERAT
2402	61087015	BACK TENDERS
2401	61087051	BAG MACHINE OPERATORS
1240	61085206	BAG SEWERS
2410	70080803	BAGGAGE HANDLERS
2410	70080802	BAGGAGE PORTERS
2410	61060804	BAGGERS
2250	61088424	BAGGERS,PLASTICS
1680	70101202	BAILIFFS
1250	61089003	BAKER HELPERS
1250	50140202	BAKERS
1250	70040200	BAKERS,BREAD &/OR PASTRY
1260	70040200	BAKERS,BREAD &/OR PASTRY
2400	61088429	BALANCING MACHINE OPERATORS
2400	61060809	BALING MACHINE OPERATORS
2310	50021810	BALLAST CLEAN MACH OPERATO
2270	61085001	BAND SCROLL SAW OPERATORS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON´T)

CLUS #	OES CODE	OES TITLE
1700	70081000	BARBERS
1280	70040400	BARTENDERS
2310	50021809	BATCH PLANT OPERATORS
1450	61087243	BATH MAKERS
1240	61041002	BATTERY LOADERS
2401	61087627	BEAD FLIPPERS
2402	61087626	BEAD FORMING MACH OPERATOR
1240	61040601	BEAM WARPER TENDERS &/OR B
1240	61040622	BEAMERS,HAND OR MACHINE
2402	61087019	BEATER ENGINEERS
2410	70080801	BELLHOPS,BAG PORTERS,DRKPR
1240	61081401	BIAS MACHINE OPERATORS
2030	50083202	BICYCLE REPAIRERS
2410	61089203	BILLPOSTERS
2140	50100206	BINDERY WORKERS,ASSEMBLY
2140	50100207	BINDERY WORKERS,STITCHING
1600	10080201	BIO & AGRICUL SCI TE
0910	10120202	BIOCHEMISTRY TECHNOLOGISTS
5440	10040601	BIOLOGICAL SCIENTISTS
0210	50060200	BLACKSMITHS
0270	61086213	BLANCHING MACHINE OPERATOR
2310	61080601	BLASTERS,MINING & QUARRYIN
0720	10243823	BLDG INSPECTORS,FIRE INSUR
1240	61086607	BLENDING MACHINE OPERATORS
1790	61088038	BLOCKMAKING MACHINE OPERAT
0910	10120207	BLOOD BANK TECH SPECILAIST
2250	61087631	BLOW MOLDING MACHINE OPERATO
2240	61088292	BODYMAKER OPERATORS,TIN CA
1950	50060400	BOILERMAKERS
2160	61083201	BONERS,MEAT
2160	61083202	BONERS,POULTRY
2140	50100204	BOOKBINDERS,HAND
2140	50100205	BOOKBINDERS,MACHINE
0370	40060603	BOOKKEEPERS,HAND
0370	40040201	BOOKKEEPING/BILLING MACH O
2270	61021401	BORING MACHINE OPERATORS,W
2402	61087053	BOTTOMING MACHINE OPERATOR
0490	40062222	BOX ESTIMATORS
2401	61087054	BOX MAKERS,PAPERBOARD
2401	61087621	BRAIDING MACH TENDERS
2401	61088406	BRAIDING MACHINE OPERATORS
2340	62001600	BRAKERS,TRAIN
2401	61088058	BRICK & TILE MAKING MACH O
1730	50020601	BRICKLAYERS
2190	61088277	BRIQETTING MACH OPERATORS
1340	10222202	BROADCAST NEWS ANALYSTS
1360	10080808	BROADCAST TECHNICIANS
0390	30001601	BROKER & MARKET OPERATORS,CO
0380	10243819	BROKER´S FL REPS,SEC TRADR
0390	40065205	BROKERAGE CLERKS
0360	10240202	BUDGET ANALYSTS
1220	61060803	BUNDLERS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
1240	61041006	BURLERS
2320	62000401	BUS DRIVERS
2330	62000402	BUS DRIVERS, SCHOOL
2160	70041400	BUTCHERS &/OR MEAT CUTTERS
2160	61083204	BUTCHERS,ALL-AROUND
0270	61086024	BUTTERMAKERS
0280	10240804	BUYERS,RETAIL &/OR WHOLSL
0610	10240804	BUYERS,RETAIL &/OR WHOLSL
0650	10240804	BUYERS,RETAIL &/OR WHOLSL
0690	10240804	BUYERS,RETAIL &/OR WHOLSL
1300	10240804	BUYERS,RETAIL &/OR WHOLSL
2270	50140400	CABINETMAKERS
1900	50121008	CABLE INSTALLERS
1900	50121007	CABLE REPAIRERS
1770	50120201	CABLE SPLICERS
2240	61088035	CAGE MAKERS,HAND OR MACHIN
1250	50140205	CAKE DECORATORS
2403	61087213	CALCINER OPERATORS
2401	61087634	CALENDAR OPERATOR HELPERS
1220	61086604	CALENDER OPERATORS,CLOTH P
2250	61087633	CALENDER OPS,RUBBER OR PLA
0490	40066804	CALL-OUT OPERATORS
2140	50101002	CAMERA OPERATORS,PRINTING
2030	50083203	CAMERA REPAIRERS
0510	10243206	CAMP DIRECTORS
0470	40066805	CANCELLATION CLERKS
1260	61086245	CANDY MAKERS
0270	80002824	CANNERY WORKERS
2350	20060801	CAPTAINS,WATER VESSEL
0780	40061601	CAR RENTAL CLERKS
2030	50082803	CAR REPAIRERS
2170	61083205	CARCASS SPLITTERS
1240	61040202	CARD TENDRS,COMBER TENDRS,
1750	50020201	CARPENTERS
1820	50140600	CARPET CUTTERS,CARPET LAYERS
2402	61087059	CARTON-FORMING MACH OPERAT
5600	10243401	CASEWORKERS
0610	40060800	CASHIERS
0650	40060800	CASHIERS
2160	61086012	CASING FINISHERS &/OR STUF
2150	50144607	CASKET COVERERS/CASKET LIN
2190	61020404	CASTERS,FINISHED OR SEMIFI
2190	61020405	CASTERS,INGOTS & PIGS
2403	61088810	CASTERS,PATTERY & PORCELAI
2401	61089078	CASTERS,PLASTICS
2401	61087241	CASTING RM OPERATORS,CELLO
1820	50024002	CEILING TILE INSTALLRS,FLR
1790	50021201	CEMENT MASONS
1320	40066202	CENTRAL OFFICE OPERATORS
1900	50121010	CENTRAL OFFICE REPAIRERS
2190	61020406	CENTRIFUGAL-CASTING MACH OPS
2420	80001005	CHAIN OFFBEARERS,LUMBER

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
2330	62002007	CHAUFFEURS
2410	70100602	CHECKERS,FITTING ROOM
0370	40062209	CHECKING CLERKS
2410	70080618	CHECKROOM & LOCKER RM ATTN
2180	61089007	CHEESEMAKER HELPERS
0270	61086029	CHEESEMAKERS
5820	10020400	CHEMICAL ENGINEERS
1450	61087288	CHEMICAL OPERATOR HELPERS
1450	61087290	CHEMICAL OPERATORS A
1450	61087291	CHEMICAL OPERATORS B
5420	10040800	CHEMISTS
0350	20041000	CHIEF EXECUTIVES,LEGIS
1450	61087295	CHIEF OPERATORS
1210	70081601	CHILD CARE ATTENDANTS
1210	70081602	CHILD CARE WORKERS
0340	61088408	CHIPPERS
5120	10100200	CHIROPRACTORS
0470	40061605	CIRCULATION CLERKS
1400	10081816	CIVIL ENGINEERING TECHNICIAN
5860	10020600	CIVIL ENGINEERS
0720	40062803	CLAIM ADJUSTERS
0720	40062801	CLAIM EXAMINERS,INSURANCE
0720	10243822	CLAIM EXAMINERS,PRPTY/CSLT
0470	40062210	CLAIMS CLERKS
0420	10243818	CLAIMS TAKERS,UNEMP BENEFI
0790	40061606	CLASSIFIED AD CLERKS,NEWSP
2420	80002401	CLEANERS,VEHICLE
5620	10241000	CLERGY
0400	40061200	CLERICAL SUPERVISORS
1240	61060408	CLOTH GRADERS
2140	61041011	CLOTH PRINTERS
1240	61041012	CLOTH SHRINKING MACH OPERA
2310	61083610	COAL WASHERS
2402	61087023	COATER OPERATORS,OFF-MACHI
1450	61087285	COATERS,PILL
2403	61083817	COATING MIXER TENDERS
1410	61080416	COIL FINISHERS
2401	61088289	COIL TAPERS,HAND OR MACHINE
1410	61085810	COIL WINDERS
2240	61088229	COILERS,WINDERS,&/OR SPOOL
0370	40066803	COIN MACH OPS/CURRENCY SOR
2030	50083215	COIN MACHINE SERVICERS,REP
0390	40061400	COLLECTORS
2402	61087061	COMBINER OPERATORS
2130	10221601	COMMERCIAL ARTISTS
5600	10243405	COMMUNITY ORGANIZATION WOR
2140	50100400	COMPOSITORS &/OR TYPESETTERS
2310	61083818	COMPOUNDERS
2250	61087645	COMPR &/OR INJECT MOLD MA
1450	61087284	COMPRESSORS,TABLET
0120	40040601	COMPUTER OPERATORS
0110	10160200	COMPUTER PROGRAMMERS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON´T)

CLUS #	OES CODE	OES TITLE
2310	50021802	CONCRETE MIXER OPERATORS
2400	61088814	CONCRETE PIPE MAKERS
1790	50021203	CONCRETE RUBBERS
1790	61088040	CONCRETE STONE FABRICATORS
1790	50021205	CONCRETE STONE FINISHERS
2401	61088070	CONCRETE VAULT MAKERS
1790	50021202	CONCRETE WALL GRINDER OPER
2340	20061200	CONDUCTORS,TRAIN
1970	50144803	CONDUIT MECHANICS
1890	20040400	CONSTRUCTION INSPECTORS
0350	10243825	CONTRACT ADMINISTRATORS
0580	30001804	CONTRIBUTION SOLICITORS
1960	50144002	CONTROL ROOM OPERATORS,STEAM
0270	80001020	CONVEYOR OPERATORS OR TEND
2300	80001020	CONVEYOR OPERATORS OR TEND
1260	61086035	COOKS &/OR COOKERS
1260	70040804	COOKS,INSTITUTIONAL
1260	70040803	COOKS,RESTAURANT
1260	70040802	COOKS,SHORT ORDER/SPEC FAS
2170	61089009	COOLER ROOM WORKERS,MEAT
2403	61086283	COOLING MACHINE OPERATORS
2140	61089096	COPY MARKERS
2190	61088854	CORE ASSEMBLERS,PASTERS,FINI
2401	61080418	CORE LAYERS/SHEET TURNERS
2190	61088403	COREMAKERS,HAND,BENCH,FLOO
2190	61088274	COREMAKERS,MACHINE
2270	61081409	CORNER CUTTERS
1680	70100607	CORRECTION OFFICERS &/OR J
1080	10101808	CORRECTIVE THERAPISTS
0470	40066807	CORRESPONDENCE CLERKS
2402	50144827	CORROSION CONTROL FITTERS
2400	61087060	CORRUGATOR OPERATORS
2400	61081410	CORRUGATOR-KNIFE OPERATORS
1710	70082001	COSMETOLOGISTS/WM´S HAIRST
1470	10243808	COST ESTIMATORS
2080	10243808	COST ESTIMATORS
1260	70041201	COUNTER ATTNS,LUNCHRM,COF SH
0580	40061602	COUNTER CLERKS
0200	10241400	COUNTY AGRIC. SPECIALISTS
0490	40065216	COURT CLERKS
2290	50140801	CRANE,DERRICK,& HOIST OPER
2270	50144828	CRATERS
0580	30001805	CRATING & MOVING ESTIMATOR
0380	10243810	CREDIT ANALYSTS
0380	10243809	CREDIT ANALYSTS,CHIEF
0390	40062201	CREDIT AUTHORIZERS
0390	40066841	CREDIT CLERKS,BANK&/ORINSU
0390	40062202	CREDIT REFERENCE CLERKS
0390	40062211	CREDIT REPORTERS
1370	70080605	CREMATORS
1320	70100202	CROSSING OR BRIDGE TENDERS
2401	61089002	CURERS,RUBBER GOODS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
5700	10243801	CURRICULUM SPECIALISTS
1290	50144602	CUSHION MAKERS
1230	50144402	CUSTOM TAILORS
0580	40062216	CUSTOMER SERV REPS.PRINT & P
2270	61085003	CUT-OFF SAW OPERATORS,LUMB
2400	61081463	CUTTERS,HAND
2400	61081403	CUTTERS,MACHINE
1240	61081417	CUTTERS,PORTABLE MACHINE
2400	61087056	CUTTING & CREASING PRESS O
2400	61081462	CUTTING MACHINE OPERATORS,
2402	61087022	CYLINDER MACHINE TENDERS
0910	10120204	CYTOTECHNOLOGISTS
2270	61086812	DADO OPERATORS
0270	61086026	DAIRY PROCESSING EQMT OPER
5700	10206001	DANCE INSTRUCTORS
5000	10220800	DANCERS
1420	50081400	DATA PROCESSING MACH MECHANI
1250	61089012	DECORATORS,BAKERY PRODUCTS
2130	61084202	DECORATORS,HAND
2180	61089013	DEHAIRING MACHINE OPERATOR
2330	62000801	DELIVERY & ROUTE WORKERS
0650	30000601	DEMONSTRATERS
0800	10120401	DENTAL ASSISTANTS
0810	10120402	DENTAL HYGIENISTS
0820	50141200	DENTAL LAB TECHNICIANS
5100	10100400	DENTISTS
1250	61086201	DEPOSITORS,FOOD
0680	10221001	DESIGNERS
1300	10221001	DESIGNERS
5010	10221001	DESIGNERS
0500	40061603	DESK CLERKS
0510	40061608	DESK CLERKS,BOWLING FLOOR
1680	70101001	DETECTIVES, PRIVATE
2400	61081424	DIE CUTTERS,CLICKING MACH
2140	61089015	DIE MOUNTERS
2210	61082403	DIE POLISHERS,WIRE &/OR TU
2210	50061002	DIE SETTERS
2210	50063003	DIE SINKERS
2190	61088287	DIE-CASTING MACH OPS,SETTE
2070	50083222	DIESEL MECHANICS
1960	50144003	DIESEL PLANT OPERATORS
1270	10121011	DIETETIC TECHNICIANS
5150	10100600	DIETITIANS &/OR NUTRITIONIST
2403	61087021	DIGESTER OPERATORS
1260	70040600	DINING RM ATTNS,BAR HELPERS,
2310	62001202	DINKEY OPERATORS
2240	61021202	DIP PLATERS,NONELECTROLYTI
2403	61087629	DIPPING MACHINE OPERATORS
5620	10241200	DIRECTORS,REL ACT &/OR REL E
1320	40066203	DIRECTORY ASSISTANCE OPERA
1630	40061801	DISPATCHERS,AIRPLANE
1320	40061803	DISPATCHERS,POLICE,FIRE,AM

CLUS #	OES CODE	OES TITLE
1320	50144023	DISPATCHERS,RELAY
1320	40061804	DISPATCHERS,VEHICLE,SERV O
0390	40066802	DIVIDEND CLERKS
1250	61086259	DIVIDING MACH OPERATORS,ET
1240	61040607	DOFFERS
1250	61086258	DOUGHNUT MAKRS/DOUGHNUT MA
2080	10080601	DRAFTERS
2090	10080601	DRAFTERS
2100	10080601	DRAFTERS
2110	10080601	DRAFTERS
1220	61089017	DRAPERS
1290	61089221	DRAPERY & UPHOLSTERY MEASU
1290	50083201	DRAPERY HANGERS
2200	61088267	DRAW-BENCH OPERATORS,TUBE
2350	50021803	DREDGE OPERATORS
1240	61040608	DRESSER TENDERS
2400	61086295	DRIER OPERATORS
1450	61087294	DRIER OPERATORS,CHEM,PLAST
2310	61083618	DRIER OPERATORS,COAL OR OR
2200	61020201	DRILL PRESS/BORING MACHINE
2310	61081803	DRILLERS,HAND
2400	61081804	DRILLERS,MACHINE
2330	62002005	DRIVERS,ASSEMBLY LINE
2180	61086011	DRY CURERS
1890	61082001	DRY WALL APPLICATORS
1690	61082807	DRYCLEANERS,HAND
1690	61082806	DRYCLEANING MACHINE OPERAT
2310	62001201	DUMP OPERATORS
0470	40040800	DUPLICATING MACHINE OPERATOR
1240	61082204	DYE RANGE OPS/SP DYE BECK
1240	61082205	DYE REEL OPS,JIGGRS,PAD MA
5610	10180202	ECONOMISTS
2402	61086807	EDGE GLUERS
0340	61085005	EDGERS,AUTOMATIC &/OR PONY
0850	10121007	EEG TECHNICIANS
0840	10121006	EKG TECHNICIANS
1410	61080439	ELEC & ELECT ASSEMBLERS
1460	61080438	ELEC MECH EQUIPMT ASSEMBLERS
1760	50082002	ELECTRIC METER INSTALLERS,
1920	50083204	ELECTRIC MOTOR REPAIRERS
1910	50083205	ELECTRIC TOOL REPAIRERS
2340	50082801	ELECTRIC TRACK SWITCH MAIN
1410	10080803	ELECTRICAL & ELECTRONIC TE
5830	10020800	ELECTRICAL ENGINEERS
1460	50083206	ELECTRICAL INSTRUMENT REPA
1760	50021401	ELECTRICIANS
1430	50083224	ELECTROMEDICAL EQUIPMT REP
1410	50083227	ELECTRONIC MECHANICS
2240	61021201	ELECTROPLATERS
2140	50100601	ELECTROTYPERS
2310	50081801	ELEVATOR INSTALLERS/REPAIR
2300	70081800	ELEVATOR OPERATORS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
5600	40061000	ELIGIBILITY WORKERS,WELFARE
1370	10140600	EMBALMERS
2401	61088404	EMBOSS,STAMP,MARK MACHINE OP
0860	10121008	EMERGENCY MEDICAL TECHNICI
0420	10242803	EMPLOYMENT INTERVIEWERS
1410	61088428	ENCAPSULATORS
1940	50081803	ENGINEERING EQUIPMT MECHAN
2180	61089085	ENROBING MACH OPS/MACHINE
2401	61087045	ENVELOPE MACHINE OPERATORS
2420	80002404	EQUIPMENT CLEANERS, HAND
2100	10080602	ESTIMATORS & DRAFTERS,UTIL
2140	10243813	ESTIMATORS,PRINTING SERVIC
1900	50100803	ETCHERS &/OR ENGRAVERS
2240	50100803	ETCHERS &/OR ENGRAVERS
1450	61087254	EVAPORATOR OPERATORS,CHEMI
0200	10202004	EXTENSION SERVICE SPECIALI
1780	61089204	EXTERMINATORS
2400	61089052	EXTRACTOR OPERATORS,EXT PL O
2250	61087624	EXTRUDER OP HELPERS,RUB OR
2250	61087623	EXTRUDER OPS,RUBBER OR PLA
2190	61088276	EXTRUSION PRESS OPS,HOT BI
1240	61086617	EYELET MACHINE OPERATORS
2250	61088817	FABRICATORS,PLASTICS
0340	80001805	FALLERS &/OR BUCKERS
0210	50081600	FARM EQUIPMENT MECHANICS
0230	61086218	FARM EQUIPMENT OPERATORS
0230	90000479	FARM WORKERS
0230	90000473	FARMERS, EXC HORTICULTURE
1260	70041804	FD PREP & SERV WKRS,FAST FD
0270	61086236	FEED PELLET MILL OPERATORS
1890	80000607	FENCE ERECTORS
2180	61086290	FERMENTATION OPERATORS
1460	50144824	FIELD MECHANICAL METER TES
0470	40062601	FILE CLERKS
2200	61082401	FILERS,GRINDERS,BUFFERS,CH
0510	40066833	FILM BOOKERS
1360	10221202	FILM EDITORS
2401	61088405	FILTER/FILTER PRESS OPERAT
5400	10180201	FINANCIAL ANALYSTS
2310	50021805	FINE-GRADERS
2400	61088818	FINISHERS,HAND
2401	61087639	FINISHERS,MACHINE
2403	61089082	FINISHERS,POTTERY & PORCEL
1670	70100401	FIRE FIGHTERS
1670	70100402	FIRE INSPECTORS
1670	70100403	FIRE OFFICERS
2340	50120600	FIRERS,LOCOMOTIVE
0330	70100606	FISH & GAME WARDENS
2160	61083207	FISH CLEANERS,HAND/BUTCHER
0230	90000498	FISHERS
1890	50023804	FITTERS,STRUCTURAL METAL
2180	61086021	FLAVOR ROOM WORKERS,FREEZE

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
2400	61087043	FLEXO-FOLDER-GLUER OPERATO
1890	50022000	FLOOR SANDING MACHINE OPERAT
1220	61041028	FOLDERS,HAND
1690	61082818	FOLDERS,LAUNDRY
2402	61087050	FOLDING MACHINE FEEDERS
1220	61086618	FOLDING MACHINE OPERATORS
2402	61087048	FOLDING MACHINE OPERATORS,
1250	50140201	FOOD SHAPERS,HAND
0330	80002831	FOREST CONSERVATION WORKER
0330	10241600	FORESTERS & CONSERV SCIENTIS
2200	50060802	FORGING PRESS OPERATORS
2200	50062403	FORGING/STRAIGHTENING ROLL
1790	80000603	FORM SETTERS,METAL ROAD FO
2401	61087047	FOUR-CORNERS-STAYER MACH O
2403	61087014	FOURDRINIER MACHINE TENDER
2402	61087065	FOURTH&FIFTH HANDS,PAPER MAC
1900	50121009	FRAME WIRERS
2300	40063401	FREIGHT HANDLERS
0770	61082605	FUEL PUMP ATTENDANTS,LUBRI
1370	70080607	FUNERAL ATTENDANTS
1450	61085612	FURNACE &/OR BURNER TENDER
2190	61020438	FURNACE CHARGERS
2190	80002819	FURNACE OP HELPERS/HEATER
2190	61020436	FURNACE OPERATORS,CUPOLA T
2400	61085619	FURNACE,KILN,DRIER OPS
2270	62000802	FURNITURE ASSEMBLERS & INS
2270	50141400	FURNITURE FINISHERS
1290	50144601	FURNITURE UPHOLSTERERS
1220	10221003	FURRIERS
1220	61086614	FUSING MACHINE OPERATORS
1970	61083620	GAGERS
0510	70080402	GAME OPS,RIDE OPS,CONCESS
0340	61085006	GANG SAWYERS
0300	80001401	GARDENERS & GROUNDSKEEPERS
1220	61085212	GARMENT REPAIRERS
1910	50082005	GAS & ELEC APPLIANCE REPAI
2400	50144005	GAS COMPRESSOR OPERATORS
1970	40065201	GAS DISPATCHERS
1880	50082004	GAS METER INSTALLERS
1970	50144006	GAS PUMPING STATION OPERAT
2030	50083207	GASOLINE ENGINE,MOWER REPA
2200	61021011	GEAR CUT,GRIND,SHAPE MACH OP
0470	40066811	GENERAL CLERKS,OFFICE
5410	10041000	GEOLOGISTS & GEOPHYSICISTS
2120	50144805	GLASS BLOWERS
2402	61081425	GLASS CUT-OFF MACHINE OPER
2060	50141801	GLASS INSTALLERS
1890	50141802	GLAZIERS
1890	61088011	GLAZIERS,STAINED GLASS/JOI
2403	61087814	GLOVE TURNERS & FORMERS
2401	61087273	GLUEMAKERS
2400	61088801	GLUERS & OR CEMENTERS,HAND

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
2402	61086815	GLUING MACHINE OPERATORS
0270	61060401	GRADERS,FOOD &/OR SKINS
5700	10202003	GRADUATE ASSISTANTS
2300	61086241	GRAIN RECEIVERS
1450	61088628	GRANULATOR MACHINE OPERATO
2140	50101206	GRAVURE PRESS OPERATORS
2401	61088407	GRINDER OPERATORS
2200	61020600	GRINDING/ABRADING MACH OPS,M
1770	80000608	GROUND WORKERS, UTILITIES
0510	10243201	GROUP RECREATION WORKERS
1210	10243201	GROUP RECREATION WORKERS
1680	70100601	GUARDS & DOORKEEPERS
2190	50062404	GUIDE SETTERS
0510	70080619	GUIDES,SIGHTSEEING OR ESTA
0510	70080608	GUIDES,TRAVEL
1980	50083208	GUNSMITHS
2190	50060803	HAMMERSMITHS,OPEN DIE
1240	61081205	HAND BLOCKERS,CAPS & HATS
2403	61082406	HAND EDGERS/BELT SEAMERS
1230	61085213	HAND SEWERS
2403	61087807	HANDBAG FRAMERS
1240	61041015	HARNESS BUILDERS,LOOM CHNG
0340	61085008	HEAD SAWYERS
2200	50060804	HEADER OPERATORS
2250	61087608	HEAT SEALERS
2200	50060600	HEAT TREATERS,ANNEALERS,ETC
2190	61020800	HEATERS,METAL
2190	61020439	HEATING PIT CHARGERS
2290	50021807	HEAVY EQUIPMENT OPERATORS
2310	80000628	HIGHWAY MAINTENANCE WORKER
0910	10120205	HISTOLOGIC TECHNOLOGISTS
5700	10241801	HOME ECONOMISTS
0300	90000474	HORTICULTURE SPECIALTY FARME
0720	10243803	HOSPITAL INS REPRESENTATIV
2340	50120403	HOSTLERS
1260	70041601	HOSTS/HOSTESSES,REST,LNGE,
0340	61086806	HOT PLATE PLYWOOD PRESS OP
1910	50082007	HOUSEHOLD APPLIANCE INSTAL
1910	50082012	HOUSEHOLD APPLIANCE REPAIR
1780	70080616	HOUSEKEEPERS,HOTEL & MOTEL
0230	90000499	HUNTERS AND TRAPPERS
2402	61086814	HYDRAULIC PRESS OPERATORS,
1960	50081804	HYDROELECTRIC MACHINE MECH
1410	61088288	IMPREGNATORS,ELECTRONIC
0130	40066812	IN-FILE OPERATORS
5850	10021000	INDUSTRIAL ENGINEERS
1470	10081000	INDUSTRIAL ENGINRING TECHNIC
2300	62001001	INDUSTRIAL TRUCK OPERATORS
0470	40064801	INFORMATION CLERKS
2180	61089029	INGREDIENT SCALERS
0890	10101809	INHALATION THERAPISTS
2140	61088616	INK WORKERS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON´T)

CLUS #	OES CODE	OES TITLE
0470	40041404	INSERTING & LABELING MACH OP
1410	50142202	INSPECTORS
1510	50142202	INSPECTORS
2190	50142202	INSPECTORS
2200	50142202	INSPECTORS
1900	50121001	INSTALLERS,REPAIRERS,SEC MAI
5700	50144815	INSTRUCTORS,APPAREL & TEXT
5700	10206002	INSTRUCTORS,AUTO DRIVING
1720	70080611	INSTRUCTORS,REDUCING
1460	61080437	INSTRUMENT MAKERS & ASSEMBLE
1460	50083221	INSTRUMENT REPAIRERS
0470	40065217	INSURANCE CHECKERS
0390	40066845	INSURANCE CLERKS
0450	40066846	INSURANCE CLERKS,MEDICAL
0720	10243815	INVESTIGATORS,INSURANCE
1780	70020600	JANITORS,PORTERS,& CLEANERS
2260	50142401	JEWELERS &/OR SILVERSMITHS
5200	10242001	JUDGES
1450	61087257	KETTLE OPERATORS,ADHESIVE
1450	61087246	KETTLE WORKERS,SOAP
0130	40041000	KEYPUNCH OPERATORS
2402	61085614	KILN OPERATORS,LUMBER
1260	70041802	KITCHEN HELPERS
2030	50081811	KNITTING MACHINE FIXERS
1240	61040403	KNITTING MACHINE OPERATORS
2270	61086819	LAMINATING MACH OPERATORS,
2250	61088415	LAMINATORS,PREFORMS
2200	61021006	LATHE MACH OPERATORS,METAL
2200	61021004	LATHE OPERATORS,GRINDING W
2270	61021005	LATHE OPERATORS,WOOD
1890	61082002	LATHERS
1910	50083211	LAUNDRY MACHINE MECHANICS
1690	61082809	LAUNDRY OPERATORS,SM ESTAB
5200	10242201	LAW CLERKS
5200	10242202	LAWYERS
2401	61087027	LAYBOY TENDERS
2200	50061202	LAYOUT MARKERS,METAL
2270	61088852	LAYOUT MARKERS,WOOD
2403	61087601	LEAD PRESS OPERATORS
2403	61087602	LEAD STRIPPING MACHINE OPERA
5700	10202008	LECTURERS
1060	50143001	LENS GRINDERS
2140	50101207	LETTER PRESS OPERATORS
2140	50101208	LETTERSET PRESS OPERATORS
5300	10242401	LIBRARIANS
1590	40063000	LIBRARY ASSISTANTS
0470	40066848	LICENSE CLERKS
1050	10121010	LICENSED PRACTICAL NURSES
5430	10041600	LIFE & PHYSICAL SCIENTISTS,N
5030	70080407	LIFEGUARDS
1360	10081815	LIGHT TECHNICIANS
2402	61087803	LIMERS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON´T)

CLUS #	OES CODE	OES TITLE
1770	50120202	LINE INSTALLERS,REPAIRERS
2410	80002830	LINE SERVICE ATTENDANTS
1970	50142209	LINE WALKERS
0340	50140802	LOADER ENGINEERS
2420	80001007	LOADERS,CAR & TRUCK
2300	61086264	LOADERS,MALT HOUSE
1970	80001019	LOADERS,TANK CARS &/OR TRU
2310	61083622	LOADING MACHINE OPERATORS
2401	61088436	LOADING MACHINE OPERATORS
0390	40066801	LOAN CLOSERS
2410	80002827	LOCKER PLANT ATTENDANTS
2030	50083212	LOCKSMITHS
2340	50120405	LOCOMOTIVE ENGINEERS
0340	62001003	LOG HANDLING EQUIPMENT OPERA
0340	50142001	LOG INSPECTORS,GRADERS,SCA
0340	50021000	LOGGING TRACTOR OPERATORS
2030	50082200	LOOM FIXERS
2400	61089032	LUGGAGE MAKERS
0340	50142002	LUMBER GRADERS
2420	80001008	LUMBER STRAIGHTENERS
2400	61080436	MACHINE ASSEMBLERS
2120	50144819	MACHINE SETTERS,PAPER GOOD
2270	50144808	MACHINE SETTERS,WOODWORKIN
2200	61021402	MACHINE TOOL OPERATORS,COM
2200	61021403	MACHINE TOOL OPERATORS,NUM
2200	61021405	MACHINE TOOL OPERATORS,TOO
2200	50061003	MACHINE TOOL SETTERS,METAL
2200	50061206	MACHINISTS
5200	10242002	MAGISTRATES
0470	40063402	MAIL CLERKS
0470	61089097	MAILERS
1950	50081807	MAINTENANCE MECHANICS
1780	50144821	MAINTENANCE REPAIRERS,GEN
0230	90000475	MANAGERS, FARMS EXC HORTICUL
0760	20061614	MANAGERS,AUTO PARTS DEPT
0760	20061613	MANAGERS,AUTO SERVICE DEPT
0300	90000476	MANAGERS,HORT SPECIALTY FARM
0650	20020800	MANAGERS,MERCHANDISE
1260	20061400	MANAGERS,REST´RANT,COFFEE SH
0610	20061612	MANAGERS,STORE
0650	20061612	MANAGERS,STORE
1710	70082003	MANICURISTS
0480	40065003	MANIFEST CLERKS
2190	50062407	MANIPULATORS,TABLE/BED OPS
1080	10101802	MANUAL ARTS,MUSIC,REC THER
0390	40065208	MARGIN CLERKS
0230	90000483	MARINE LIFE CULTIVATION WORK
2350	50081806	MARINE MECHANICS/REPAIRERS
0770	61082603	MARINE SERVICE STAT ATTEND
1220	61089092	MARKERS
1690	61082801	MARKERS,CLASSIFIERS,ASSEMB
5610	10180205	MARKET RESEARCH ANALYSTS

CLUS #	OES CODE	OES TITLE
0490	40066829	MARKING CLERKS TRADE
1720	70080609	MASSEURS OR MASSEUSES
1600	10081200	MATHEMATICAL TECHNICIANS
5400	10060402	MATHEMATICIANS
2150	50144608	MATTRESS MAKERS
2160	61086033	MEAT GRINDERS
1550	10081400	MECHAN ENGINEERING TECHNICIA
5840	10021200	MECHANICAL ENGINEERS
0790	10180204	MEDIA ANALYSTS
0790	10240803	MEDIA BUYERS
0790	40066809	MEDIA CLERKS/ESTIMATORS/BI
0980	70061013	MEDICAL ASSISTANTS
0910	10120206	MEDICAL LAB ASSISTANTS
0910	10120201	MEDICAL LAB TECHNOLOGISTS
1010	10120600	MEDICAL RECORD LIBRARIANS
5440	10040602	MEDICAL SCIENTISTS
1230	61085204	MENDERS
0650	50141000	MERCHAN DISPLAYERS & WIND TR
0490	40063602	MESSENGERS
0490	40063601	MESSENGERS,BANK
2240	50023801	METAL FABRICATORS
2260	50061801	METAL MOLD MAKERS
5870	10021400	METALLURGISTS & MET ENGINEER
5410	10040400	METEOROLOGISTS
0490	40063800	METER READERS
1320	40065214	METER READERS,TAXI
0910	10120203	MICROBIOLOGY TECHNOLOGISTS
2310	61083646	MILL &/OR GRINDER OPS,MINE
2190	61088826	MILL HANDS,PLATE MILL
0270	50142603	MILLERS
2402	61088071	MILLERS,CLAY
2200	61021007	MILLING/PLANING MACHINE OP
1950	50061600	MILLWRIGHTS
2030	50081805	MINE MACHINERY MECHANICS
5870	10021600	MINING ENGINEERS
2190	61083831	MIXER OPERATORS,HOT METAL
1450	61083855	MIXERS & BLENDERS,CHEMICALS
0270	61083856	MIXERS,FOOD & TOBACCO
2190	61083857	MIXERS,ORE & METALS
2400	61083854	MIXERS,STONE,CLAY,GLASS,ET
1780	50144825	MOBILE HOME REPAIRERS
1780	61080401	MOBILE HOME SET-UP OPERATO
2402	50062209	MODEL &/OR MOLD MAKERS
2401	80002403	MOLD CLEANERS,TIRE
2190	61088813	MOLD CLOSERS,CORE SET
2190	50061804	MOLDERS,BENCH &/OR FLOOR
1450	61087292	MOLDERS,MACHINE(DRUGS)
2190	50061805	MOLDERS,MACHINE(METAL)
2220	50061806	MOLDERS,PATTERN
0390	40066842	MORTGAGE CLOSING CLERKS
2270	61081430	MORTISING MACHINE OPERATOR
1370	70080602	MORTUARY BEAUTICIANS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON´T)

CLUS #	OES CODE	OES TITLE
0510	50142800	MOTION PICTURE PROJECTIONIST
2350	50083226	MOTOR BOAT MECHANICS
2240	61088291	MULTI-SLIDE MACHINE OPERAT
5300	10240603	MUSEUM CURATORS
5300	10141401	MUSEUM TECHNICIANS,RESTORE
5000	10221408	MUSIC DIRECTORS
2000	50144826	MUSICAL INSTRUMENTS REPAIR
5000	10221404	MUSICIANS,INSTRUMENTAL
2400	61084602	NAILING MACHINE OPERATORS
1240	61041018	NAPPER TENDERS
0390	40060201	NEW ACCOUNTS TELLERS
0270	61086019	NOVELTY WORKERS
5870	10022004	NUCLEAR ENGINEERS
0300	90000484	NURSERY WORKERS
1040	70061010	NURSES AIDES/ORDERLIES
1180	10100800	NURSES,PROFESSIONAL
1110	10101801	OCCUPATIONAL THERAPISTS
1110	70060400	OCCUPATIONAL THERAPY AIDES
1420	50082400	OFF MACH SERVICERS/CASH REG
2420	80001009	OFF-BEARERS
2140	50101202	OFFSET LITHOGRAPHIC PRESS
1950	61084000	OILERS
1060	50143002	OPTICIANS,DISP &/OR OPTIC
5130	10101000	OPTOMETRISTS
0470	40061604	ORDER CLERKS
0480	80002001	ORDER FILLERS
2350	61084803	ORDINARY SEAMEN
1130	70061012	ORTHOPEDIC CAST SPECIALIST
1060	10121004	ORTHOPISTS
0700	61084400	OTHER PHOTO PROCESS WORKERS
1250	61086292	OVEN OPERATORS
2060	61084201	PAINTERS,AUTOMOTIVE
1850	50022200	PAINTERS,MAINTENANCE
2400	61084210	PAINTERS,PRODUCTION
5010	10221605	PAINTINGS RESTORERS
2310	61083643	PANELBD OPERATORS,GRIND MI
1260	70041805	PANTRY,SANDWICH,&/OR COFF
2401	61085804	PAPER REEL OPS,REWINDER OP
1850	50022600	PAPERHANGERS
1580	10242203	PARALEGAL PERSONNEL
1680	70101007	PARKING ENFORCEMENT OFFICE
2330	62001400	PARKING LOT ATTENDANTS
1220	61081431	PATTERN CUTTERS
2140	61041020	PATTERNMAKERS
2220	50062203	PATTERNMAKERS,METAL
2250	50062202	PATTERNMAKERS,PLASTICS
2270	50062204	PATTERNMAKERS,WOOD
0370	40064000	PAYROLL/TIMEKEEPING CLERKS
0120	40040602	PERIPHERAL EDP EQPT OPERAT
0420	40062602	PERSONNEL CLERKS
0350	10242802	PERSONNEL,LABOR REL SPECIA
5140	10101200	PHARMACISTS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON´T)

CLUS #	OES CODE	OES TITLE
1020	10121009	PHARMACY HELPERS
2140	50101003	PHOTOENGRAVERS
0700	10221805	PHOTOGRAPHERS
2140	61088621	PHOTOLETTERING MACHINE OPE
1600	10081812	PHYSICAL SCIENCE TECHNICIANS
1150	10101804	PHYSICAL THERAPISTS
1150	10121012	PHYSICAL THERAPY TECHNICIA
5110	10101400	PHYSICIANS &/OR SURGEONS
5180	10121014	PHYSICIANS ASSISTANTS
5410	10041400	PHYSICISTS
2190	61088282	PICKLERS,CONTINOUS PICKLIN
2180	61086001	PICKLERS,FOOD
2130	50020205	PICTURE FRAMERS
2250	61087640	PILLING MACHINE OPERATORS
2350	20060802	PILOTS,SHIP
2410	70080403	PIN CHASERS
2030	50083225	PINSETTER MECHANICS,AUTOMA
2420	61088851	PIPE STRIPPERS
1880	80000609	PIPELAYERS
2401	50144801	PIPELINERS
0720	30001004	PLACERS
0340	61081464	PLANER OPERATORS
1730	61082407	PLANERS,STONE
1890	50022801	PLASTERERS
2402	61080409	PLASTIC TOP INSTALLERS
2250	61089044	PLASTICS REPAIRERS
2140	50101203	PLATEMAKERS
2420	61088834	PLATER HELPERS
1240	61081207	PLEATING MACHINE OPERATORS
1880	50023203	PLUMBERS &/OR PIPEFITTERS
5160	10101600	PODIATRISTS
1680	70101005	POLICE DETECTIVES
1680	70101004	POLICE OFFICERS
1680	70101006	POLICE PATROLMEN/WOMEN
0470	40066815	POLICY CHANGE CLERKS
2403	61082408	POLISHERS,GLASS &/OR BLOCK
1320	40063200	POSTAL MAIL CARRIERS
0470	40064200	POSTAL SERVICE CLERKS
0350	20041200	POSTMASTERS &/OR MAIL SUPERI
2190	61088835	POT LINERS
2190	61088236	POT TENDERS
2170	61089040	POULTRY DRESSERS,EVISCERAT
2190	61020435	POURERS,METAL
0340	61086808	POWER BARKER OPERATORS
2230	61021611	POWER BRAKE,BENDING MACH O
2400	61080410	POWER SCREWDRIVER OPERATOR
1770	50081808	POWER TRANSFORMER REPAIRER
5700	10203002	PRESCH. &/OR ELEM. SCH. TE
2140	61089095	PRESS ASSISTANTS & FEEDERS
2402	61088026	PRESS OPERATORS
2180	61086003	PRESS OPERATORS,MEAT
2250	61088416	PRESS OPERATORS,PLASTICS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
2140	50101201	PRESS OPERATORS,PLATE PRIN
2400	61087618	PRESS TENDERS,RUBBER GOODS
2180	61086223	PRESSERS,EXPELLER OPERATOR
1690	61081201	PRESSERS,HAND
1690	61081202	PRESSERS,MACHINE
1690	61081203	PRESSERS,MACHINE,LAUNDRY
0350	20041601	PRINCIPALS
2140	61089042	PRINTER-SLOTTER FEEDERS
2400	61087032	PRINTER-SLOTTER OPERATORS
1320	40066204	PRIVATE BRANCH SERVICE ADV
0480	40065402	PROCUREMENT CLERKS
0480	40062400	PRODUCTION CLERKS
2400	61060802	PRODUCTION PACKAGERS
5700	10202005	PROFESSORS
0370	40040202	PROOF MACHINE OPERATORS
2140	50101210	PROOF PRESS OPERATORS
0460	40064411	PROOFREADERS, CLERICAL
2140	40064410	PROOFREADERS,COMPOSED COPY
1130	10121005	PROSTHETISTS,ORTHOTISTS
1760	50083220	PROTECTIVE SIGNAL INST/REP
1320	40066831	PROTECTIVE SIGNAL OPERATOR
0960	70061011	PSYCHIATRIC AIDES
5500	10180600	PSYCHOLOGISTS
0350	20040800	PUBLIC ADM INSPECTORS,EX CON
0350	10222000	PUBLIC RELATIONS SPECIALISTS
2403	61087005	PULP REFINER OPERATORS
2402	61087006	PULPERS
2401	61088444	PUMP OPERATORS
1970	50144019	PUMP STAT OPERATORS,WATERW
2170	61086004	PUMPERS,MEAT
2200	61021609	PUNCH PRESS OPERATORS,META
2200	50061007	PUNCH PRESS SETTERS,METAL
0390	40066816	PURCHASE & SALES CLERKS,SECU
0280	10240801	PURCHASING AGENTS &/OR BUY
0630	10240801	PURCHASING AGENTS &/OR BUY
2402	61089091	PURIFICATION OPERATORS,ETC
1240	61040610	QUILLING MACHINE OPERATORS
2410	70080404	RACKERS,POOLROOM
1900	50082600	RADIO & TV SERVICERS & REPAI
1340	10141000	RADIO OPERATORS
1510	10081806	RADIOGRAPHERS
0880	10120804	RADIOLOGIC TECHS & NUC MED
1680	70101003	RAILROAD POLICE
0480	40066838	RATE CLERKS,FREIGHT
0370	40065209	RATERS
2180	80002828	RAW CHEESE WORKERS
0540	30001402	REAL ESTATE BROKERS
0470	40066818	REAL ESTATE CLERKS
0470	40064802	RECEPTIONISTS
2403	61087007	RECOVERY OPERATORS,PAPERMA
0510	70080401	RECREATION FACILITY ATTEND
2403	61088021	REFACTORY GRINDER OPERATOR

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
2403	61087606	REFINER OPERATORS,RUBBER
2400	61086224	REFINERY OPERATORS
2120	50020606	REFRACTORY MATERIALS REPAI
2403	61088828	REFRACTORY MOLDERS,HAND
1930	50080200	REFRIG MECHANICS,A/C MECHANI
2420	80001200	REFUSE COLLECTORS
1790	80000610	REINFORCING-IRON WORKERS
0780	62002006	RENTAL CAR DELIVERY WORKER
5020	10221203	REPORTERS & CORRESPONDENTS
0340	61085011	RESAWYERS
0510	40066403	RESERVATION AGENTS
2180	61086204	RETORT OPERATORS
2400	80002822	RIGGERS
0540	10240805	RIGHT-OF-WAY AGENTS
2270	61081434	RIP & GROOVE MACHINE OPERA
2270	61085012	RIPSAW OPERATORS
2402	61084605	RIVETERS,HEAVY
2240	61084606	RIVETERS,LIGHT
2190	61088210	ROLL BUILDERS
2240	61088286	ROLL FORMING MACH OPERATOR
2403	61087607	ROLLER BUILDERS,RUBBER
2401	61086227	ROLLING MACHINE OPERATORS
2190	50062416	ROLLING MILL OPERATOR HELP
2190	50062415	ROLLING MILL OPS/ATTENDANT
2310	50020202	ROOF BOLTERS
2403	61083835	ROOF CEMENT & PAINT MAKERS
1870	50023600	ROOFERS
1240	61040621	ROPE LAYING MACHINE OPERAT
2290	61081808	ROTARY DRILL OPERATORS
2250	61087635	ROTATION MOLDING MACH OPERAT
2403	61081435	RUBBER GDS CUTTER-FINISHER
2401	61087603	RUBBER MILL OPERATORS
2270	61084208	RUBBERS
1690	61082812	RUG CLEANERS,HAND
1690	61082813	RUG CLEANERS,MACHINE
0390	40066820	SAFE DEPOSIT CLERKS
0720	10243804	SAFETY INSPECTORS
0390	30001604	SALES AGENTS,SALES REPS,FI
0390	30001605	SALES AGENTS,SALES REPS,SE
0540	30001403	SALES AGENTS,SALES REPS,RE
0720	30001005	SALES AGENTS,SALES REPS,IN
0650	30001806	SALES CLERK SUPERVISORS
0610	30001802	SALES CLERKS
0630	30001802	SALES CLERKS
0650	30001802	SALES CLERKS
0670	30001802	SALES CLERKS
0690	30001802	SALES CLERKS
0650	30001807	SALES REPS.,NONTECHNICAL
0630	30001808	SALES REPS.,TECHNICAL
1220	50144405	SAMPLE MAKERS
2401	80001012	SAMPLERS & OR TEST PREPARERS
2190	80002801	SAND CUTTERS,MIXERS,SLINGERS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
2400	61082402	SANDBLASTERS/SHOTBLASTERS
2270	61082410	SANDERS,WOOD
2270	61082411	SAW FILERS
2200	61085013	SAWYERS,METAL
2403	61085015	SAWYERS,PLASTICS
2310	61085014	SAWYERS,STONE
1320	70100203	SCHOOL CROSSING GUARDS
2401	61087035	SCORERS
2401	80002821	SCRAP SORTERS
2402	61087063	SCRAPPERS/STRIPPERS
2130	61089014	SCREEN CUTTERS/MARKERS,NON
2140	61088402	SCREEN MAKERS,PHOTOGRAPHIC
2140	61088401	SCREEN/STENCIL PRINTERS/SE
2402	61088049	SCREENER OPERATORS
0490	40066847	SCRIPT CLERKS
0430	40020200	SECRETARIES
0440	40020200	SECRETARIES
0450	40020200	SECRETARIES
0390	40066814	SECURITIES CASHERS,EXCHNAGE
0390	40066822	SECURITY DESCRIPTION CLERKS
2403	61060209	SELECTORS,GLASSWARE
2420	80002832	SEPTIC TANK SERVICERS,ETC
0470	40066824	SERVICE CLERKS
1320	40066205	SERVICE OBSERVERS
0650	40066808	SERVICE REPRESENTATIVES
2402	80002812	SETTERS &/OR DRAWERS
2140	50100202	SETTERS,BINDERY MACHINES
2190	50061005	SETTERS,MOLDING & COREMKG
2250	50061009	SETTERS,PLASTIC MOLDING MA
1440	50144013	SEWAGE PLANT OPERATORS
1230	61081600	SEWERS,CUSTOM
1220	61085205	SEWING MACH OPS,REG EQMT,N
1220	61085220	SEWING MACH OPS,REG EQMT,G
1220	61085215	SEWING MACH OPS,SPEC EQMT,
1220	61085219	SEWING MACH OPS,SPEC EQMT,
1910	50083218	SEWING MACHINE MECHANICS
2180	61089050	SHACTORS
1240	40066834	SHADE TICKET MARKERS
2190	80002813	SHAKEOUT WORKERS,FOUNDRY
1710	70082006	SHAMPOOERS
2270	61021009	SHAPER &/OR ROUTER OPERATO
2270	61088841	SHAPERS,HAND
2230	61081459	SHEAR &/OR SLITTER OPERATO
2230	50061008	SHEAR &/OR SLITTER SETTERS
2230	50062600	SHEET METAL WORKERS
2402	61081439	SHEETER OPERATORS,PLASTICS
2190	50061808	SHELL MOLD/SH CORE MACH OP
1680	70101201	SHERIFFS
0480	40065001	SHIPPING & RECEIVING CLERK
0480	40065002	SHIPPING PACKERS
2010	50143602	SHOE REPAIRERS
1900	50121013	SHOP REPAIRERS,INSTRUMENT

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
1240	61089054	SHUTTLERS,EMBROIDERY
1890	50083230	SIGN ERECTORS
1760	50082802	SIGNAL MAINTAINERS
5000	10221405	SINGERS
2170	61086007	SKIN PEELING MACHINE OPERA
2170	61089058	SKINNERS,ANIMAL
1220	61088410	SKIVERS
2190	61088213	SLAB DEPILER OPERATORS
2401	61081442	SLITTER-CREASER-SLOTTER OP
2400	61081443	SLITTER-SCORER-CUT-OFF OPE
2400	61081445	SLITTING MACHINE OPERATORS
2403	61088004	SLIVER FORMING & WINDING O
2401	61087070	SLOTTER OPERATORS
2170	61089060	SMOKERS
1240	61088443	SOABAR OPERATORS
0960	70083000	SOCIAL SERVICE AIDES
5610	10180800	SOCIOLOGISTS
2401	61060404	SORTERS,BURNED PRODUCTS
1240	61060405	SORTERS,LEATHER
2150	61060406	SORTERS,UPHOLSTERY PARTS
0370	40066844	SORTING CLERKS,BANK
1360	10080801	SOUND RECORDING & REPRO TE
0720	10243820	SPECIAL AGENTS,INSURANCE
5020	10081814	SPECIFICATION WRITERS,ENGINE
1510	10081807	SPECTROSCOPISTS
1170	10101803	SPEECH & HEARING CLINICIAN
1260	61086229	SPINNERS,CONFECTION
1240	61040612	SPINNERS,FRAME
2401	61087611	SPLICERS
2403	61087615	SPLICERS,RUBBER PRODUCTS
2180	61089061	SPLITTING MACHINE FEEDERS
1240	61040619	SPOOLER OPERATORS,AUTOMATI
5700	10220403	SPORTS INSTRUCTORS
1690	61089062	SPOT CLEANERS
1690	61082802	SPOTTERS,DRYCLEANING
1690	61082803	SPOTTERS,WASHABLE MATERIAL
1240	61086612	SPREADERS
2240	61080413	SPRING MACHINE OPERATORS
2150	50144603	SPRINGERS
2403	61087809	STAKERS,MACHINE
2400	61084604	STAPLING MACHINE OPERATORS
0370	40066823	STATEMENT CLERKS
0510	40066401	STATION AGENTS
1970	50144024	STATION ENGINEERS,MAIN LIN
1900	50121003	STATION INSTALLERS
1960	61085602	STATIONARY BOILER FIRERS
1780	50144014	STATIONARY ENGINEERS
1960	50144014	STATIONARY ENGINEERS
0370	40065211	STATISTICAL CLERKS
5400	10060600	STATISTICIANS
2140	50101209	STEEL DIE PRESS OPERATORS
2190	61020430	STEEL POURER HELPERS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON´T)

CLUS #	OES CODE	OES TITLE
0430	40020400	STENOGRAPHERS
2402	61087279	STERILIZERS
2180	61089065	STICKERS
0270	61086291	STILL OPERATORS
1450	61087287	STILL OPERATORS,BATCH OR C
1220	61085431	STITCHERS,STANDARD MACHINE
0480	80002003	STOCK CLERKS,SALES FLOOR
0610	80002003	STOCK CLERKS,SALES FLOOR
0480	40065404	STOCK CLERKS,STOCKRM,WAREH
0610	40065404	STOCK CLERKS,STOCKRM,WAREH
2120	50144203	STONE CARVERS,HAND
1730	50020602	STONE MASONS
1730	61082413	STONE POLISHERS
2260	50142410	STONE SETTERS
1680	70101002	STORE DETECTIVES
2190	61020407	STOVE TNDRS &/OR BL FUR KP
1760	50021402	STREETLIGHT REPAIRERS,SERV
2230	61088261	STRETCHER-LEVELER OPERATOR
2403	80002815	STRIPPERS
2140	50101001	STRIPPERS PRINTING
1890	50023800	STRUCTURAL STEEL WORKERS
2180	61089069	STUNNERS
1960	50120802	SUBSTATION OPERATORS
0270	61086230	SUGAR BOILERS
0350	20041603	SUPERINTENDENTS
0230	90000477	SUPERVISORS, FARM WORKERS
0230	90000485	SUPERVISORS, RELATED AG OCCU
0500	70200001	SUPERVISORS,NONWORKING,SER
1260	70200001	SUPERVISORS,NONWORKING,SER
1640	50040003	SUPERVISORS,NONWORKING
1640	70200001	SUPERVISORS,NONWORKING,SER
1650	50040003	SUPERVISORS,NONWORKING
0900	10121002	SURGICAL TECHNICIANS
0490	40062000	SURVEY WORKERS
1400	61081000	SURVEYOR HELPERS
1400	10081600	SURVEYORS
0470	40064803	SWITCHBD OPS & RECEPTIONISTS
1320	40066201	SWITCHBOARD OPERATORS
1960	50120800	SWITCHBOARD OPS,GENERATING P
0100	10160400	SYSTEMS ANALYSTS,EDP
2402	61087810	TANNING DRUM OPS/COLORERS,
1890	61082003	TAPERS
2400	61087038	TAPING MACHINE OPERATORS
2190	61020401	TAPPERS,METAL
0360	10240203	TAX EXAMINERS,COLLECTRS,RE
0360	10240204	TAX PREPARERS
2330	62002004	TAXI DRIVERS
0410	40065600	TEACHERS AIDES/EDUC ASSISTAN
5700	10201000	TEACHERS,ADULT EDUCATION
5700	10202002	TEACHERS,COLLEGE
5700	10205000	TEACHERS,SECONDARY
5700	10202001	TEACHERS,VOCATIONAL ED OR

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
1590	10140405	TECHNICAL ASSISTANTS,LIBRA
1360	10243802	TECHNICAL DIRECTORS
1900	50121004	TELEGRAPH EQUIPMT MAINTAIN
1320	40066000	TELEGRAPH OPERATORS
1900	50121012	TELEGRAPH PLANT M@INTAINER
0470	40061607	TELEPHONE AD TAKERS,NEWSPA
1900	50121014	TELETYPE INSTALLERS
1360	10221802	TELEVISION CAMERA OPERATOR
0390	40060203	TELLERS
2270	61081452	TENONER OPERATORS
1240	61041025	TENTER FRAME OPERATORS
1780	61089211	TERMITE TREATER HELPERS
1780	61089210	TERMITE TREATERS
1890	50021206	TERRAZZO WORKERS
1510	50142205	TESTERS
1900	50142205	TESTERS
2200	50142205	TESTERS
1220	61089071	THREAD TRIMMERS
0510	40066405	TICKET AGENTS
1890	50024001	TILE SETTERS
0340	10081808	TIMBER CRUISERS
1240	61083852	TINTERS
2310	61083637	TIPPLE OPERATORS
2401	61087614	TIRE BUILDERS
0770	61082606	TIRE CHANGERS
0770	61088614	TIRE FABRICATORS,REPAIRERS
2402	61089072	TIRE FINISHERS
2401	80001015	TIRE LAYERS & EXTRACTORS
2401	61082607	TIRE REPAIRERS
1580	10243811	TITLE EXAMINERS &/OR @BSTR
1580	40066825	TITLE SEARCHERS
2210	50063001	TOOL & DIE MAKERS
2200	10141200	TOOL PROGRAMMERS,NUMERICAL C
2340	62001800	TOWER OPERATORS
0350	40066840	TNWN CLERKS
0390	40065207	TRADE RECORDERS
0510	40066402	TRAFFIC AGENTS
1360	40066826	TRAFFIC CLERKS
5860	10022003	TRAFFIC ENGINEERS
1600	10081813	TRAFFIC TECHNICIANS
0780	61082604	TRAILER RENTAL ATTENDANTS
0390	40066827	TRANSFER CLERKS
0390	40040203	TRANSIT CLERKS
0480	40066404	TRANSPORTATION AGENTS
0510	10243821	TRAVEL AGTS,TR ACCOM APPRA
0510	40066828	TRAVEL CLERKS
0510	40064804	TRAVEL COUNSELORS,AUTO CLU
2403	61086803	TREATING ENGINEERS
1440	50081810	TREATMENT PLANT MECHANICS
0300	80001402	TREE TRIMMERS
1890	80000611	TRENCH SEWER SHAPERS
2270	61085017	TRIM SAW OPERATORS

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
2401	61085439	TRIMMERS,MACHINE
2402	61081458	TRIMMERS,PLASTICS
1900	50121011	TROUBLE LOCATORS,TEST DESK
1770	50120203	TROUBLE SHOOTERR,POWER LIN
2330	80002825	TRUCK DRIVER HELPERS
2320	62002201	TRUCK DRIVERS
2402	61087039	TUBE MACHINE OPERATORS,BAG
1690	61082805	TUMBLER OPERATORS
2402	61088414	TUMBLER OPERATORS,PLASTICS
1960	50144015	TURBINE OPERATORS
1240	61041027	TURNERS
1240	61040615	TWISTER TENDERS
0460	40020600	TYPISTS
1680	70100800	U.S. MARSHALLS
5030	10220404	UMPIRES
0720	10243814	UNDERWRITERS
2150	50144605	UPHOLSTERERS
2150	50144606	UPHOLSTERY CUTTERS
2150	50144604	UPHOLSTERY TRIMMERS
5610	10181000	URBAN AND REGIONAL PLANNERS
0510	70082800	USHERS,LOBBY ATTNS,TICKET TA
2401	61087637	VACUUM PLASTIC FORMING MAC
2270	61085018	VARIETY SAW OPERATORS
0650	30001803	VENDORS
2420	80001018	VENEER DRIER FEEDERS
0340	50142003	VENEER GRADERS
2270	61021001	VENEER LATHE OPERATORS
2403	61086805	VENEER REPAIRERS,MACHINE
2270	61082415	VENEER SANDERS
5170	10102000	VETERINARIANS
1360	10080802	VIDEO RECORDING ENGINEERS
5700	10243600	VOCATIONAL & EDUC COUNSELORS
2402	61088423	VULCANIZERS,RUBBER PLATE
1260	70041602	WAITERS OR WAITRESSES
1240	61040616	WARP TYING MACHINE TENDERS
0270	61086207	WASHERS &/OR SEPARATORS,FO
1690	61082804	WASHERS,MACH &/OR STARCHER
1690	61082820	WASHERS,SYNTHETIC FIBERS
1440	50144021	WASTE TREATMENT PLANT OPS,
2020	50142402	WATCHMAKERS
1880	50082009	WATER METER INSTALLERS
1440	50144025	WATER TREATMENT PLANT OPER
1440	50144017	WATERSHED TENDERS
2260	61088849	WAX PATTERN WORKERS
2400	61087041	WAXING MACHINE OPERATORS
1240	61040804	WEAVERS
0270	80001016	WEIGHERS, PRODUCTION
0480	40066600	WEIGHERS,RECORD KEEPING
2280	61022002	WELDERS & FLAMECUTTERS
5600	10243404	WELFARE INVESTIGATORS
0650	20061615	WHOLESALERS
2403	61085808	WINDERS,PAPER MACHINE

ALPHABETICAL LISTING OF OES TITLES WITH CODES (CON'T)

CLUS #	OES CODE	OES TITLE
2200	61088850	WIRE DRAWERS
2240	61088293	WIRE WEAVERS
1410	61080415	WIRERS,ELECTRONIC
2270	61021404	WOOD MACHINISTS
2270	61086818	WOODWORKING MACHINE OPERAT
2300	80001023	WORK DISTRIBUTORS
0470	40065212	WORKSHEET CLERKS
2402	61060807	WRAPPING MACHINE OPERATORS
2402	61087811	WRINGER MACHINE OPERATORS
5020	10221201	WRITERS &/OR EDITORS
0880	10120801	X-RAY TECHNICIANS
2340	40065405	YARD CLERKS
2340	50120402	YARD ENGINEERS
0340	50140803	YARDER ENGINEERS
1240	61040618	YARN WINDERS

>>> HOURLY WAGE CONVERSION TABLE <<<

HOURLY WAGE	WEEKLY WAGE	MONTHLY WAGE	YEARLY WAGE
$ 3.80	$ 152	$ 661	$ 7930
$ 4.00	$ 160	$ 696	$ 8346
$ 4.20	$ 168	$ 730	$ 8762
$ 4.40	$ 176	$ 765	$ 9178
$ 4.60	$ 184	$ 800	$ 9594
$ 4.80	$ 192	$ 834	$ 10010
$ 5.00	$ 200	$ 869	$ 10426
$ 5.20	$ 208	$ 904	$ 10842
$ 5.40	$ 216	$ 938	$ 11258
$ 5.60	$ 224	$ 973	$ 11674
$ 5.80	$ 232	$ 1008	$ 12090
$ 6.00	$ 240	$ 1042	$ 12506
$ 6.20	$ 248	$ 1077	$ 12922
$ 6.40	$ 256	$ 1112	$ 13338
$ 6.60	$ 264	$ 1146	$ 13754
$ 6.80	$ 272	$ 1181	$ 14170
$ 7.00	$ 280	$ 1216	$ 14586
$ 7.20	$ 288	$ 1250	$ 15002
$ 7.40	$ 296	$ 1285	$ 15418
$ 7.60	$ 304	$ 1320	$ 15834
$ 7.80	$ 312	$ 1354	$ 16250
$ 8.00	$ 320	$ 1389	$ 16666
$ 8.20	$ 328	$ 1424	$ 17082
$ 8.40	$ 336	$ 1458	$ 17498
$ 8.60	$ 344	$ 1493	$ 17914
$ 8.80	$ 352	$ 1528	$ 18330
$ 9.00	$ 360	$ 1562	$ 18746
$ 9.20	$ 368	$ 1597	$ 19162
$ 9.40	$ 376	$ 1632	$ 19578
$ 9.60	$ 384	$ 1666	$ 19994
$ 9.80	$ 392	$ 1701	$ 20410
$ 10.00	$ 400	$ 1736	$ 20826
$ 10.20	$ 408	$ 1770	$ 21242
$ 10.40	$ 416	$ 1805	$ 21658
$ 10.60	$ 424	$ 1840	$ 22074
$ 10.80	$ 432	$ 1874	$ 22490
$ 11.00	$ 440	$ 1909	$ 22906
$ 11.20	$ 448	$ 0944	$ 23322
$ 11.40	$ 456	$ 1978	$ 23738
$ 11.60	$ 464	$ 2013	$ 24154
$ 11.80	$ 472	$ 2048	$ 24570
$ 12.00	$ 480	$ 2082	$ 24986
$ 12.20	$ 488	$ 2117	$ 25402
$ 12.40	$ 496	$ 2152	$ 25818
$ 12.60	$ 504	$ 2186	$ 26234
$ 12.80	$ 512	$ 2221	$ 26650
$ 13.00	$ 520	$ 2256	$ 27066
$ 13.20	$ 528	$ 2290	$ 27482
$ 13.40	$ 536	$ 2325	$ 27898
$ 13.60	$ 544	$ 2360	$ 28314
$ 13.80	$ 552	$ 2394	$ 28730
$ 14.00	$ 560	$ 2429	$ 29146

>>> HOURLY WAGE CONVERSION TABLE <<<

HOURLY WAGE	WEEKLY WAGE	MONTHLY WAGE	YEARLY WAGE
$ 14.20	$ 568	$ 2464	$ 29562
$ 14.40	$ 576	$ 2498	$ 29978
$ 14.60	$ 584	$ 2533	$ 30394
$ 14.80	$ 592	$ 2568	$ 30810
$ 15.00	$ 600	$ 2602	$ 31226
$ 15.20	$ 608	$ 2637	$ 31642
$ 15.40	$ 616	$ 2672	$ 32058
$ 15.60	$ 624	$ 2706	$ 32474
$ 15.80	$ 632	$ 2741	$ 32890
$ 16.00	$ 640	$ 2776	$ 33306
$ 16.20	$ 648	$ 2810	$ 33722
$ 16.40	$ 656	$ 2845	$ 34138
$ 16.60	$ 664	$ 2880	$ 34554
$ 16.80	$ 672	$ 2914	$ 34970
$ 17.00	$ 680	$ 2949	$ 35386
$ 17.20	$ 688	$ 2984	$ 35802
$ 17.40	$ 696	$ 3018	$ 36218
$ 17.60	$ 704	$ 3053	$ 36634
$ 17.80	$ 712	$ 3088	$ 37050
$ 18.00	$ 620	$ 3122	$ 37466
$ 18.20	$ 728	$ 3157	$ 37882
$ 18.40!	$ 736	$ 3192	$ 38298
$ 18.60	$ 744	$ 3226	$ 38714
$ 18.80	$ 752	$ 3261	$ 39130
$ 19.00	$ 760	$ 3296	$ 39546
$ 19.20	$ 768	$ 3330	$ 39962
$ 19.40	$ 776	$ 3365	$ 40378
$ 19.60	$ 784	$ 3400	$ 40794
$ 19.80	$ 792	$ 3434	$ 41210
$ 20.00	$ 800	$ 3469	$ 41626
$ 20.20	$ 808	$ 3504	$ 42042
$ 20.40	$ 816	$ 3538	$ 42458
$ 20.60	$ 824	$ 3573	$ 42874
$ 20.80	$ 832	$ 3608	$ 43290
$ 21.00	$ 840	$ 3642	$ 43706
$ 21.20	$ 848	$ 3677	$ 44122
$ 21.40	$ 856	$ 3712	$ 44538
$ 21.60	$ 864	$ 3746	$ 44954
$ 21.80	$ 872	$ 3781	$ 45370
$ 22.00	$ 880	$ 3816	$ 45786
$ 22.20	$ 888	$ 3850	$ 46202
$ 22.40	$ 896	$ 3885	$ 46618
$ 22.60	$ 904	$ 3920	$ 47034
$ 22.80	$ 912	$ 3954	$ 47450
$ 23.00	$ 920	$ 3989	$ 47866
$ 23.20	$ 928	$ 4024	$ 48282
$ 23.40	$ 936	$ 4058	$ 48698
$ 23.60	$ 944	$ 4093	$ 49114
$ 23.80	$ 952	$ 4128	$ 49530
$ 24.00	$ 960	$ 4162	$ 49946
$ 24.20	$ 968	$ 4197	$ 50362
$ 24.40	$ 976	$ 4232	$ 50778

>>> HOURLY WAGE CONVERSION TABLE (CONTINUED) <<<

HOURLY WAGE	WEEKLY WAGE	MONTHLY WAGE	YEARLY WAGE
$ 24.60	$ 984	$ 4266	$ 51194
$ 24.80	$ 992	$ 4301	$ 51610
$ 25.00	$ 1000	$ 4336	$ 52026
$ 25.20	$ 1008	$ 4370	$ 52442
$ 25.40	$ 1016	$ 4405	$ 52858
$ 25.60	$ 1024	$ 4440	$ 53274
$ 25.80	$ 1032	$ 4474	$ 53690
$ 26.00	$ 1040	$ 4509	$ 54106
$ 26.20	$ 1048	$ 4544	$ 54522
$ 26.40	$ 1056	$ 4578	$ 54938
$ 26.60	$ 1064	$ 4613	$ 55354
$ 26.80	$ 1072	$ 4648	$ 55770
$ 27.00	$ 1080	$ 4682	$ 56186
$ 27.20	$ 1088	$ 4717	$ 56602
$ 27.40	$ 1096	$ 4752	$ 57018
$ 27.60	$ 1104	$ 4786	$ 57434
$ 27.80	$ 1112	$ 4821	$ 57850
$ 28.00	$ 1120	$ 4856	$ 58266
$ 28.20	$ 1128	$ 4890	$ 58682
$ 28.40	$ 0136	$ 4925	$ 59098
$ 28.60	$ 1144	$ 4960	$ 59514
$ 28.80	$ 1152	$ 4994	$ 59930
$ 29.00	$ 1160	$ 5029	$ 60346
$ 29.20	$ 1168	$ 5064	$ 60762
$ 29.40	$ 1176	$ 5098	$ 61178
$ 29.60	$ 1184	$ 5133	$ 61594
$ 29.80	$ 1192	$ 5168	$ 62010
$ 30.00	$ 1200	$ 5202	$ 62426
$ 30.20	$ 1208	$ 5237	$ 62842
$ 30.40	$ 1216	$ 5272	$ 63258
$ 30.60	$ 1224	$ 5306	$ 63674
$ 30.80	$ 1232	$ 5341	$ 64090
$ 31.00	$ 1240	$ 5376	$ 64506
$ 31.20	$ 1248	$ 5410	$ 64922
$ 31.40	$ 1256	$ 5445	$ 65338
$ 31.60	$ 1264	$ 5480	$ 65754
$ 31.80	$ 1272	$ 5514	$ 66170
$ 32.00	$ 1280	$ 5549	$ 66586
$ 32.20	$ 1288	$ 5584	$ 67002
$ 32.40	$ 1296	$ 5618	$ 67418
$ 32.60	$ 1304	$ 5653	$ 67834
$ 32.80	$ 1312	$ 5688	$ 68250
$ 33.00	$ 1320	$ 5722	$ 68666
$ 33.20	$ 1328	$ 5757	$ 69082
$ 33.40	$ 1336	$ 5792	$ 69498
$ 33.60	$ 1344	$ 5826	$ 69914
$ 33.80	$ 1352	$ 5861	$ 70330
$ 34.00	$ 1360	$ 5896	$ 70746
$ 34.20	$ 1368	$ 5930	$ 71162
$ 34.40	$ 1376	$ 5965	$ 71578
$ 34.60	$ 1384	$ 6000	$ 71994
$ 34.80	$ 1392	$ 6034	$ 72410